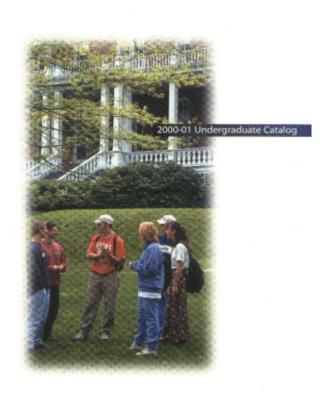
# 2000-2001 Undergraduate Catalog



Indiana University of Pennsylvania

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# **University Calendar**

#### Fall Semester, 2000

Registration Classes begin Labor Day (no classes) Thanksgiving recess begins at close of night classes Classes resume (8:00 a.m.) Final exams December Commencement August 29 August 30 September 4

November 22 November 27 December 13-20 December 17

#### Spring Semester, 2001

Registration Classes begin Spring vacation Classes resume (8:00 a.m.) Reading Day Final exams May Commencement January 16 January 17 March 5-9 March 12 May 2 May 3-10 May 12

#### Summer Sessions, 2001

To be announced

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- Council of Trustees: Indiana University of Pennsylvania
- Executive Officers: Indiana University of Pennsylvania
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# **Branch Campuses**

Patricia D. Scott, Interim Dean of the Armstrong Campus Valarie J. Mancuso, Dean of the Punxsutawney Campus

- General Information
- Programs of Study
- Admission
- Food Services
- Fees
- Housing
- Rules for Student Behavior
- Continuing Education

#### **General Information**

IUP operates two branch campuses, one in Punxsutawney, twenty-eight miles north of the Indiana campus, and one in Kittanning, twenty-eight miles west of the Indiana campus. The first branch campus was established in 1962 in Punxsutawney. The following year the Armstrong campus in Kittanning was opened. The Punxsutawney campus accommodates 200-225 students, and the Armstrong campus accommodates 300-350 students.

Control of the branch campuses is directly vested with the IUP administration and Council of Trustees. Both branch campuses carry full accreditation as integral parts of the undergraduate programs of IUP. This means that courses offered at the branch campuses are of the same quality as those offered at the Indiana campus.

#### **Programs of Study**

The branch campuses of IUP offer basic Liberal Studies courses for most majors in the various undergraduate colleges of the university. Students may schedule a full program for the freshman year and some sophomore-level courses. No student accepted at either of the branch campuses is eligible for transfer to the Indiana campus until he/she has completed two semesters and has attained at least a 2.0 GPA and earned at least 21 undergraduate semester hours.

Faculty advisors and administrators at the branch campuses are available to advise students on their instructional programs and the proper time for continuing at the Indiana campus.

#### Admission

Any prospective student who wishes to attend either of the branch campuses instead of the Indiana campus may apply for admission by requesting an application from the Admissions Office or from the dean of either branch campus. The mailing addresses for the respective branch campuses follow:

Kittanning, PA 16201
http://old.www.iup.edu/armstr

Punxsutawney Campus

IUP 1010 Winslow Street Punxsutawney, PA 15767 http://old.www.iup.edu/punxsutawney/

#### **Fees**

Branch campus students pay the same basic fees as Indiana campus students.

#### **Food Service**

Each branch campus has its own dining hall within the residence hall. Meals are served seven days a week during the time the university is in session. Residence hall students as well as students living in private homes and apartments may make arrangements to take meals in the dining halls. The dining service is operated by the same food service contractor as on the Indiana campus.

#### Housing

The Punxsutawney Campus has privately owned residence halls for students living beyond commuting distance, while the Armstrong Campus operates university-owned residence halls. Students are free to choose their housing from all available sources, which include the residence halls and private homes or apartments in the community. A list of rooms and apartments is available in each campus director's office.

#### **Rules and Regulations Concerning Student Behavior**

Students at the branch campuses are subject to the same rules and regulations as students on the Indiana campus.

#### **Continuing Education**

The School of Continuing Education plays a significant role in programming Community-University Studies classes (noncredit), academic workshops, and institutes in the Punxsutawney and Kittanning areas. The school is also responsive to the needs of the local community through credit and noncredit activities.

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Mark J. Staszkiewicz, Provost

Mark J. Piwinsky, Associate Provost for Academic Administration Yvonne B. Redd, Assistant to the Associate Provost

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Robert C. Camp, Dean Manmohan D. Chaubey, Associate Dean

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John W. Butzow, Dean Edward W. Nardi, Interim Associate Dean for Academic Affairs John R. Johnson, Associate Dean for Teacher Education

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Michael J. Hood, Dean Douglas E. Bish, Associate Dean

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#### Carleen C. Zoni, Dean Kathleen M. Rourke, Associate Dean

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Brenda L. Carter, Dean Alphonse N. Novels, Associate Dean Yaw A. Asamoah, Dean's Associate

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John S. Eck, Dean Aleksandra B. Kaniasty, Assistant Dean Jacqueline L. Gorman, Dean's Associate

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# Nicholas E. Kolb, Dean George E. Rogers, Assistant Dean

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# The University

#### Introduction

Indiana University of Pennsylvania is committed to equal opportunity and affirmative action for its students, employees, and applicants. The university is committed to providing equal educational and employment rights to all persons without regard to race, color, sex, religion, national origin, age, disability, ancestry, or sexual orientation. Each member of the university community has a right to study and work in an environment free from any form of racial, ethnic, disability, or sexual discrimination. In accordance with federal and state laws, the university will not tolerate such discrimination.

This policy is placed in this document in accordance with state and federal laws including Titles VI and VII of the Civil Rights Act of 1964, Title IX of the Educational Amendments of 1972, Sections 503 and 504 of the Rehabilitation Act of 1973, the Americans with Disabilities Act of 1990, and the Civil Rights Act of 1991 as well as all applicable federal and state executive orders. This policy extends to veterans of military service including disabled veterans.

#### Please direct all general inquiries regarding equal opportunity and affirmative action to

Associate Vice President for Human Resources Administrative Annex, 910 Grant St., Indiana, PA 15705 Telephone: 724-357-2431, Fax: 724-357-2685

#### TD: Telecommunications Device available in the

Advising and Testing Center, 724-357-4067 (V/TD) (8:00-4:30, M-F) Campus Police, 724-357-2141(TD) (24 hours)BR>

IUP ensures compliance with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act through the provision of program access accommodations. Please direct inquiries regarding accommodations for persons with disabilities to

#### **Student Concerns:**

Dr. Catherine Dugan
Director, Advising and Testing Center/Disability Support Services
504 Coordinator
106 Pratt Hall
Telephone: 724-357-4067

#### **Employee Concerns:**

Ms. Helen Soltis, Assistant to the President for Social Equity Administrative Annex, 910 Grant St., Indiana, PA 15705 Telephone: 724-357-2431

#### Office of the Vice President for Student Affairs

212 Sutton Hall, 1011 South Dr., Indiana, PA 15705

Telephone: 724-357-1242

The university annually publishes a student handbook, *The Source*, which is a companion booklet to this catalog. The handbook contains detailed information on the policies mentioned on this page. *The Source* is accessible to all enrolled students at the website <a href="http://old.www.iup.edu/studentaffairs/source">http://old.www.iup.edu/studentaffairs/source</a>.

Questions regarding the Sexual Harassment Policy or complaint procedures may be directed to the Associate Vice President for Human Resources, Administrative Annex, IUP. Policy approved by University Senate, May 1, 1990; pending final approval by Council of Trustees.

This bulletin contains announcements of courses for the academic year 2000-01. IUP reserves the right to repeal, change, or amend the rules, regulations, courses, and programs contained in this bulletin at any time. Tuition and fees are also subject to change.

IUP is a member of Pennsylvania's State System of Higher Education.

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# Acknowledgements

- · Cover design
  - **Jim Rugg**, student worker, Publications
- Conversion of Catalog Information to HTML
  - Andrew Karatjas, Student Worker, Registrar's Office

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# **About the On-Line Catalog**

The files containing this catalog are intended for reference only and do not take the place of the official printed copy. Because the electronic form of the publication is displayed on a wide variety of machines with varying capabilities, the reader is cautioned that the format of the original document cannot always be preserved.

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# **Index of Course Descriptions**

#### <u>A-B-C-D-E-F-G-H-I-J-L-M-N-O-P-Q-R-S-T-U-V-W</u>

Accounting

Administrative Services

Anthropology

**Applied Music** 

Art Education

Art History

Art (Studio)

**Biochemistry** 

**Biology** 

**Business Education** 

**Business Law** 

**Chemistry** 

Communications Media

Computer Science

Consumer Affairs

Counseling and Student Development

Counselor Education

Criminology

Critical Languages

#### Distributive Education

Early Childhood Education

**Economics** 

**Education** 

**Education of Exceptional Persons** 

Education of Persons with Hearing Loss

Educational and School Psychology

**Elementary Education** 

**English** 

Family and Consumer Sciences Education

Family and Consumer Sciences Education and Child Development/Family Relations

Fashion Merchandising

**Finance** 

Fine Arts

Food and Nutrition

Foreign Language/Study Abroad and Comparative Literature

# German Gerontology Greek Health and Physical Education History Honors College Hotel, Restaurant, and Institutional Management Industrial and Labor Relations Information Management

Foundations of Education

French

Geography Geoscience

<u>Journalism</u>

<u>Italian</u>

Interior Design
International Studies

Latin
Learning Center
Liberal Studies
Library

Management
Marine Science
Marketing
Mathematics
Medical Technology
Military Science
Music
Music History

Nuclear Medicine Technology Nursing

Office Systems

Pan-African Studies
Philosophy
Physics
Political Science

<u>Psychology</u>
Quantitative/Business
Regional Planning Rehabilitation Religious Studies Respiratory Care
Safety Sciences Science Social Work Sociology Spanish Speech Pathology and Audiology
<u>Theater</u>
Universitywide Courses
Vocational Education
Women's Studies
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## The University

### President's Message

### **Indiana University of Pennsylvania**

Congratulations on your decision to experience the exciting intellectual, cultural, and social world of Indiana University of Pennsylvania.

The only university in the Pennsylvania State System of Higher Education to confer doctoral degrees, IUP attracts faculty members who are on the cutting edge of their fields but are committed to undergraduate teaching. Outstanding programs in more than a hundred majors, from the traditional liberal arts and sciences to such professional fields as nursing, business, criminology, and safety sciences, offer a broad array of academic challenges. Classrooms and residence halls equipped with fiberoptics and cable television support a rich academic tradition in which students actively participate in the learning process.

IUP stretches the boundaries of the academic environment to include learning experiences, through research and internships, that prepare students for careers in the global marketplace. The university's internship program places students in a variety of professional settings, from the European Parliament to *Fortune 500* companies to the White House. IUP's rigorous Liberal Studies requirement, emphasizing communication skills and analytical thinking, ensures that all our students are prepared for life as well as for a career. Longstanding excellence in the fine arts creates a campus life rich in cultural and entertainment opportunities. IUP's global partnerships bring a cosmopolitan student body to Indiana and provide attractive opportunities to study abroad.

The Robert E. Cook Honors College at IUP is an exciting model that combines for especially gifted students intellectual engagement and service, reflecting the university's values of high intellectual achievement, personal development, commitment, and volunteer service.

Strong academic programs are complemented by the university's successful athletics program. Fans from across the region enjoy not only highly competitive teams but one of the country's top marching bands.

On behalf of the IUP family, I take pleasure in welcoming you.

Lawrence K. Pettit, President

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## The University

### **Undergraduate Degrees Offered at IUP**

### **Indiana University of Pennsylvania**

#### **Bachelor of Arts**

Anthropology (Tracks available: Applied Anthropology, Archaeology, General Anthropology)

Art/History Track

Art/Studio

**Biology** 

Chemistry

Computer Science

Criminology

Criminology/Pre-Law Track

**Economics** 

Economics/Mathematics

Economics/Pre-Law Track

English

English/Pre-Law Track

French

French for International Trade

Geography (Tracks available: Economic Geographer, Environmental Geographer, General Geography, GIS and

Cartographer)

German

German for International Trade

Government and Public Service

History

History/Pre-Law Track

**Interdisciplinary Fine Arts** 

Journalism

Music (Tracks available: History and Literature, Music Performance, Theory and Composition)

Philosophy

Philosophy/Pre-Law Track

**Physics** 

Political Science

Political Science/International Studies

Political Science/Pre-Law Track

Psychology (Applied Psychology Track available)

Regional Planning (Tracks available: Economic Developer, Environmental Planner, GIS and Cartographer, Town

Manager)

**Religious Studies** 

Sociology (Tracks available: Applied Social Research, General Sociology, Human Services)

Spanish

Spanish for International Trade

Theater

#### **Bachelor of Science in Education**

Art Education

**Biology Education** 

**Business Education** 

**Chemistry Education** 

Early Childhood Education

Earth and Space Science Education

**Education of Exceptional Persons** 

Education of Persons with Hearing Loss

Elementary Education

**English Education** 

Family and Consumer Sciences Education

French Education K-12

General Science Education

Secondary German Education

Health and Physical Education

**Mathematics Education** 

Music Education

**Physics Education** 

Social Science Education (Concentrations available: Anthropology, Sociology; Tracks available: Economics,

Geography, History)

Secondary Spanish Education

Speech-Language Pathology and Audiology

Vocational-Technical Education

#### **Bachelor of Science**

Accounting

**Applied Mathematics** 

**Applied Physics** 

Biochemistry

**Biology** 

Business/Pre-Law Track

**Business Technology Support** 

Chemistry

Child Development/Family Relations

Communications Media

Computer Science (Tracks available: Applied Computer Science, Languages and Systems)

Consumer Affairs (Community Services Track available)

Dietetics (Tracks available: Dietetics, Nutrition)

**Environmental Geoscience** 

Environmental Health

**Fashion Merchandising** 

Finance

Food and Nutrition Science

**General Studies** 

Geology

Hotel, Restaurant, and Institutional Management

Human Resources Management

Interior Design/Housing

**International Business** 

Management

**Management Information Systems** 

Marketing

Mathematics

Medical Technology

Natural Science (Tracks available: Pre-Chiropractic, Pre-Dentistry, Pre-Engineering, Pre-Optometry, Pre-

Physical Therapy, Pre-Podiatry)

Nuclear Medicine Technology

Nursing

Physical Education and Sport

**Physics** 

Rehabilitation

Respiratory Care

Safety Sciences

#### **Bachelor of Fine Arts**

Music Performance

Studio

#### **Associate of Arts**

Business (Computer and Office Information Systems Specialization or Accounting Specialization) General Studies

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## The University

#### **Board of Governors**

### **State System of Higher Education**

## <u>Chancellor, State System of Higher Education</u> James H. McCormick

#### **Board of Governors, State System of Higher Education**

F. Eugene Dixon, Jr., Chairperson, Lafayette Hill

Kim E. Lyttle, Vice Chairperson, Pittsburgh

R. Benjamin Wiley, Vice Chairperson, Erie

Syed R. Ali-Zaidi, Shippenville

Muriel Berman, Allentown

Jeffrey W. Coy, Harrisburg

Daniel P. Elby, Harrisburg

Charles A. Gomulka, Pittsburgh

Eugene W. Hickok, Jr., Harrisburg

F. Joseph Loeper, Harrisburg

Rocco A. Ortenzio, Mechanicsburg

Tom Ridge, Harrisburg

David M. Sanko, Harrisburg

B. Michael Schaul, Harrisburg

Jere W. Schuler, Harrisburg

Patrick J. Stapleton, Indiana

John K. Thornburgh, Pittsburgh

Christine J. Toretti, Indiana

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## The University

#### **Council of Trustees**

### **Indiana University of Pennsylvania**

#### **Council of Trustees Indiana University of Pennsylvania**

Patrick J. Stapleton, Chairperson, Indiana
David L. Johnson, Vice Chairperson, Havertown
Kim E. Lyttle, Secretary, Pittsburgh
Jeffrey L. Brooks, Treasurer, Pittsburgh
Susan S. Delaney, Indiana
Kathleen A. Durkin, Pittsburgh
Mark A. Holman, Harrisburg
Robert M. Hovanec, Butler
David Osikowicz, Punxsutawney
Gealy W. Wallwork, Kittanning

James H. McCormick (ex officio), Chancellor, State System of Higher Education

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## The University

#### **Executive Officers**

### **Indiana University of Pennsylvania**

#### **Executive Officers Indiana University of Pennsylvania**

Dr. Lawrence K. Pettit, President

Dr. Ruth A. Riesenman, Executive Assistant to the President

Dr. Mark J. Staszkiewicz, Provost and Vice President for Academic Affairs

Mr. C. Edward Receski, Vice President for Administration

Mr. Louis Szalontai, Vice President for Finance

Dr. Joan M. Fisher, Vice President for Institutional Advancement

Dr. Harold D. Goldsmith, Vice President for Student Affairs

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## The University

### **A University Education**

Through undergraduate and graduate programs, IUP serves students from across the nation and around the world by introducing them to and sustaining them in a culture of high aspiration and achievement so they may lead productive and meaningful lives. Singly and through collaboration within the State System of Higher Education, with other educational institutions, and with business, government, human services, and professional organizations, IUP contributes to the economic and cultural strength of the region, the commonwealth, and the nation through education, scholarship, and service.

As the university continually evolves to higher levels of excellence, IUP will be:

- An institution of higher and continuing learning committed to the teacher-scholar model and the learning-centered environment and a university where master's and doctoral education is targeted to the education of competent practitioners, the production of practical knowledge, and the enrichment of undergraduate life.
- A learning-centered environment in which students enjoy traditional and nontraditional classroom experiences, engage in research and service activities with their faculty mentors, become lifelong learners equipped to adapt to the changing needs of their professional lives, and develop leadership skills for effective citizenship.
- An institution guided by its heritage, maintaining an environment of inquiry that combines a thorough examination of cultural traditions and intellectual roots with scientific and technological currency and the best of the liberal arts with superior career preparation.
- A learning community in touch with the main currents of politics, economics, and cultural life throughout the world; a community enriched by the presence of a significant number of international students and by opportunities for study abroad; and a community supported by technology that facilitates active participation in the creation and use of information and knowledge on a global scale.
- A center of lively intellectual discourse and affection for the arts.
- A community that is diverse in composition, with a clear commitment to tolerance, compassion, and service.

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## The University

### **History of the University**

IUP has witnessed a history rich in accomplishment. Since 1875, when it served only 225 students in a single building, it has experienced continuous growth, becoming Pennsylvania's fifth largest university. The current enrollment is over thirteen thousand, with students from thirty-six states and over fifty-five countries.

The first building, named John Sutton Hall in honor of the first president of the Board of Trustees, was opened for students on May 17, 1875.

In April, 1920, control and ownership of the school passed to the Commonwealth of Pennsylvania. In May, 1927, by authority of the General Assembly, the State Normal School became a college, with the right to grant degrees. The name was then changed to the State Teachers College at Indiana, Pennsylvania. In 1959, the legislature approved a change of name to Indiana State College; in the 1960s there followed a rapid growth in the liberal arts program. In December, 1965, Indiana was redesignated Indiana University of Pennsylvania and given the authority to expand its curriculum and to grant degrees at the master's level. At this time the first doctoral program was initiated.

Current academic offerings include more than a hundred undergraduate majors with a variety of internship and study abroad programs, more than forty master's degree programs, and eight doctoral degrees. Unusual opportunities for research at all levels and the Robert E. Cook Honors College provide special challenges for academic growth. The variety and quality of instruction are characteristic of a big university, yet at IUP, close, one-to-one-relationships develop within the teaching framework, and a strong sense of community prevails.

The following publications have all recognized IUP for its high academic standards and competitive costs: Arco's Dollarwise Guide to American Colleges; Barron's 300: Best Buys in College Education; The Best Buys in College Education by Edward Fiske, education editor of the New York Times; Changing Times; How to Get an Ivy League Education at a State University by Martin Nemko; Money magazine's Money Guide; Two Hundred Most Selective Colleges: The Definitive Guide to America's First-Choice Schools; and U.S. News and World Report.

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## The University

### **University Governance**

Indiana University of Pennsylvania is one of fourteen members of the State System of Higher Education in Pennsylvania. Oversight of the System is vested in the Board of Governors, the members of which are appointed by the governor. Each university has its own Council of Trustees, responsible for financial oversight and insuring compliance of university policies with state law. Responsibility for the day-to-day operations is entrusted to the university president, who is the chief executive officer.

Due to the complexity of the university, the president relies on the University Senate to develop and approve curricula and to advise the president on setting policies that affect and shape the working and learning environment at IUP. The University Senate is composed of faculty, students, and administrators who are both elected and appointed by their peers.

Many of the important policies governing the working and learning environment, such as the policy on sexual harassment, the academic integrity policy, and the policy on nondiscrimination, are given in this catalog or the student handbook (The Source) and are also available on the World Wide Web at <a href="http://www.iup.edu">http://www.iup.edu</a>. To insure a nurturing environment where all faculty, students, and administrators can work together in harmony, it is essential that all members of the university be familiar with these policies as they set the expectations for civil behavior and academic conduct.

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## The University

### Accreditation

IUP is a state-owned institution for higher education and a member of the State System of Higher Education. It is an approved and fully accredited member of the following:

- American Chemical Society
- American Culinary Federation Educational Institute
- American Home Economics Association
- American Psychological Association
- American Society of Safety Engineers
- Commission on Collegiate Nursing Education
- Committee on Allied Health Education and Accreditation
- Council on Hotel, Restaurant, and Institutional Education
- Educational Standards Board of the Speech-Language-Hearing Association
- Middle States Association of Colleges and Schools
- National Accrediting Agency for Clinical Sciences
- · National Association of Schools of Theater
- National Association of School Psychologists
- National Association of Schools of Music
- National Council for Accreditation of Teacher Education

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## The University

### **Buildings and Grounds**

In 1875, the main campus consisted of 12 acres and one building. With the addition in 1995 of 137 acres of undeveloped land from the former Campbell and County farms, the main campus now comprises 341 acres, on which are located seventy-five major buildings owned by the state and seven athletic fields. Two of the buildings, Breezedale and John Sutton Hall, have been entered in the National Register of Historic Places.

The Punxsutawney Branch Campus totals 5.98 acres consisting of two sites—four buildings at the Punxsutawney campus and the Culinary School. The Armstrong Branch Campus has four buildings and a total of 1.74 acres.

The Co-op Recreational Park, located a few miles from the campus, consists of 280 acres and several buildings, including a lodge and a ski hut. The wooded hillsides offer opportunities for nature study and for such outdoor recreational activities as driving golf balls, hiking, cross-country skiing, and exercise trails.

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## **Indiana**, the County and the Town

Indiana County was formed by act of the state legislature in 1803 and was fully organized in 1806. George Clymer of Philadelphia, a signer of the Declaration of Independence, owned more than three thousand acres in the area and presented 250 acres to the new county for a county seat. The town of Indiana was officially founded in 1816.

The county's first major industry was the manufacture of salt, which began in 1813 about two miles above the town of Saltsburg. As early as 1797 bituminous coal was dug from exposed outcroppings. Mining soon rivaled agriculture as the backbone of the county's economy. Its influence gradually diminished, though, and today IUP is the county's largest employer. Indiana County now thrives with an economic base combining education, agriculture, energy production, and commerce into an outstanding quality of life for its nearly 90,000 residents.

Indiana has become known as the birthplace of film star, Jimmy Stewart, and as the Christmas Tree Capital of the World. Visitors and locals alike can relive Indiana County's past by visiting one of its parks, covered bridges, fairs, and even the largest Amish settlement in Western Pennsylvania. As one of nine counties represented in America's Industrial Heritage Project, Indiana County has a number of historical sites that are part of the project's Path of Progress. The project's archives are housed in the Special Collections section of IUP's Stapleton Library.

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### Alumni

With a living alumni base that comprises more than eighty thousand individuals, the university has come to rely on the support of its alumni in a variety of areas. These include career networking, student recruitment, and government relations, as well as fund-raising and service on the Council of Trustees, Alumni Association Executive Board, and a number of advisory committees.

Graduates automatically become members of the Alumni Association. They are encouraged to continue their connections with IUP through periodicals like *IUP Magazine* and the university's World Wide Web sites.

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## The University

### **Computing Services**

Academic computing support is provided by technical staff assigned to each college. The college staffs provide computational support for undergraduate and graduate students and for faculty and student research.

Connectivity for student computers in the residence halls is provided through the Office of Housing and Residence Life. The administrative needs of the university, including the Library's information systems, are served by the <u>Technology Services Center</u>.

The university's computing infrastructure consists of a DEC Open VMS cluster, several Unix systems, and a local area network environment. Access to the campus network is provided primarily through Ethernet connections utilizing the campus fiberoptic backbone. Terminal access via modem is also available. IUP is connected to the Internet via SSHEnet.

Student access to computing is provided, for the most part, through the public computing laboratories. The primary public labs are strategically placed around campus to maximize their availability and impact. Several departments maintain computing facilities that are of a focused nature and which are intended to support specific programs. These include several specialized networks to address particular needs.

Through implementation of its strategic computing plan, which is part of the university long-range planning process, the university is committed to providing the level of computing and information technology necessary for a modern institution of higher education. Guidance in this area is provided by both the Academic Computing Policy Advisory Committee and the Administrative Computing Oversight Committee.

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## The University

### **Institute for Research and Community Service**

The Institute for Research and Community Service serves as the primary outreach office of the university to link community effort and need with the diverse resources of the university and to encourage research activities among the faculty. Major areas of responsibility include:

- 1. to expand economic development and public service initiatives within the university's research mission;
- 2. to provide a coordinating function for all IUP research centers; and
- 3. to provide leadership and support for the Applied Research Lab and other affiliate programs.

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## The University

### **Library and Media Services**

Patrick J. Stapleton, Jr., Library, the central library for IUP, was completed and dedicated in 1981. It adjoins Rhodes R. Stabley Library, which results in a combined structure of 156,000 square feet. The Cogswell Music Library, the University School Library, and the branch campus libraries in Kittanning and in Punxsutawney are the other components of the IUP library system. Nineteen library faculty members, twenty-two support staff members, and over two hundred students are employed in the Libraries Division of the university. The book collection contains 775,000 volumes; there are 4,500 periodical subscriptions, 1.7 million items of microforms, over 100,000 bound periodicals, and over 24,000 volumes of governmental publications. (IUP is a designated Select Depository for federal and state publications.) The libraries' media holdings in all formats are extensive. Resources are supplemented through membership in OCLC for interlibrary loan, the Health Sciences Consortium (North Carolina), and the Laurel Highlands Consortium and the Center for Research Libraries. The central library is open 92 hours a week during regular terms. The Cogswell Music Library, located on the top floor of Cogswell Hall, contains approximately 6,000 books, 70,000 scores, and 10,000 recordings. Holdings of monumental editions are substantial. Sound recordings circulate only to faculty members, but listening stations are available for use by all patrons. The University School Library's 6,500 volumes support the curriculum of grades K-6 at the University School. The Armstrong County Campus library has more than 22,000 volumes, and the recently renovated Punxsutawney library contains more than 13,000 books as well as 150 periodicals and recordings of music, poetry, and drama.

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## The University

#### **IUP Centers and Institutes**

Centers and institutes serve a variety of functions. Each center/institute is unique in its focus and is created to meet a specifically identified need. Centers provide an opportunity for faculty members to utilize their expertise through consultation, technical assistance, and research-related activities. Centers/institutes provide excellent opportunities for students to learn, to demonstrate their knowledge and skills, and to become involved in meaningful projects in the community. Centers/institutes strengthen the research and public service missions of the university and, therefore, enhance the quality of education. A current listing of centers and institutes at IUP follows.

- African American Cultural Center
- American Language Institute
- Biotechnology Institute
- Business, Industry, and Labor Program
- Cardiac Rehabilitation Center
- Center for Applied Psychology
- Center for Economic Education
- Center for Middle Eastern Studies
- Center for Research in Criminology
- Center for Research in Written Communication and Translation
- Center for Statistics Education in Pennsylvania at IUP
- Center for Teaching Excellence
- Center for Video Technology
- Center for Vocational Personnel Preparation
- Child Study Center
- Criminal Justice Training Center
- Highway Safety Center
- Institute for Research and Community Service
  - Applied Research Lab
  - Archaeological Services
  - Census Data Center
  - Community Nutrition Services
  - Mid-Atlantic Addiction Training Institute (MAATI)
- Instructional Design Center
- Intercollegiate Athletic Institute for Sports Camps
- IUP Pine Grove Center
- Literacy Center
- Management Services Group
  - Center for Family-Owned Businesses
  - Government Contracting Assistance Program
  - Small Business Development Center
  - Small Business Incubator
  - Small Business Institute
- Intercollegiate Athletic Institute for Sports Camps

- National Environmental Education and Training Center, Inc. (NEETC)
- Pennsylvania Center for the Study of Labor Relations
- Pennsylvania/OSHA Consultation Program
- Spatial Sciences Research Center
- Speech and Hearing Clinic
- Teacher Education Center for Science, Mathematics, and Technology

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## The University

### **University Organization**

The university's administration comprises five divisions: Academic Affairs, Administration, Finance, Institutional Advancement, and Student Affairs. Information about Academic Affairs and Student Affairs appears in this catalog's sections called, respectively, Academic Affairs Division Areas and Student Programs and Services. Information about the other three divisions appears below.

**Administrative Division:** The Division of Administration at Indiana University of Pennsylvania provides internal and external constituents of the university with the highest-quality services in the most supportive and cost-effective manner. In contributing towards the fulfillment of IUP's mission of teaching, research, and public service, the division is responsible for the development, stewardship, and enhancement of the university's human and physical resources.BR>

Major responsibilities of the division are organized and operated from the four distinct departments of Facilities Management, Human Resources, Campus Police and Safety, and University Printing Center. The physical campus consists of 341 acres and seventy-five major buildings on the main campus in Indiana along with branch campuses located in Punxsutawney and Kittanning.

At the direction of President Lawrence K. Pettit in September of 1993, the Administrative Division developed, directed, coordinated, and produced IUP's Long-Range Campus Development Plan. The plan, approved and published in February, 1996, permits versatile and flexible guidance for which the physical plant and facilities can be maintained and expanded in support of IUP's academic goals and aspirations for its future. The Long-Range Campus Development Plan continues to guide the university as it prepares effective and orderly financial plans for implementing the proposed changes in physical facilities..

**Finance Division:** The mission of the Finance Division is to address financial service needs of students, faculty, staff, and other constituencies of IUP and to provide direction and support to achieve financial integrity and stability for the university.

The major offices within the Finance Division are:

- Accounting Services
- Budget Planning
- Internal Review
- Student Financial Services

**Institutional Advancement Division:** The advancement arm of the university community, the Institutional Advancement Division brings together several functional areas. The publications and image, public relations, media relations, governmental relations, alumni affairs, and development areas stimulate positive regard for the university on the part of a variety of publics. The departments feature the excellence and achievement of faculty, students, staff, and alumni and engage people in the life of the university. Staff and volunteers raise private resources that can influence the quality of the academic environment and of student and alumni life.

The Foundation for IUP is the nonprofit charitable vehicle steered by a distinguished Board of Directors through which the charitable dollars raised by the volunteers and staff members are passed to the university to improve the educational and learning environment.

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## **Admissions and Registration**

### **Undergraduate Admissions Policy**

Graduates of an accredited four-year high school or holders of a GED equivalency diploma are qualified to apply for admission to IUP. Students who have completed the junior year of high school may file an application any time after July 1.

Requests for applications and catalogs should be addressed to

Office of Admissions Indiana University of Pennsylvania 210 Pratt Drive, Suite 16 Indiana, PA 15705 1-800-442-6830 or 724-357-2230

The Admissions Committee, giving equal opportunity to all students, will take the following criteria into consideration when reviewing each application: SAT or ACT scores, class rank, grades, high school counselor recommendations, faculty recommendations, extracurricular activities, and other pertinent information that would be helpful to the Admissions Committee in making decisions. SAT or ACT scores are not required for transfers, veterans, or applicants who have graduated from high school more than five years before applying. However, high school and all previous college transcripts are required of all applicants.

Although the university does not require a specific number of high school credits in particular subject areas, applicants are strongly urged to take the usual college preparatory program in high school. Applicants should also take any available high school courses in the field of their intended major. Certain majors at IUP require completion of a foreign language at the intermediate level in order to earn a bachelor's degree. The Admissions Committee does not require an applicant to take a foreign language in high school for admission to these majors.

Applications are considered by the Admissions Committee on a rolling basis. Under a rolling admissions policy, applications are reviewed as they become complete. Decisions can range from automatic acceptance, to request for additional information, to other alternatives, with a May 1 deadline for tuition deposits.

Academically qualified applicants to the departments of Art, Music, and Theater will be admitted to the university by the Admissions Committee. However, admission to the requested major will be subject to the acceptance by the Department of Art after a portfolio review and by the departments of Music and Theater after an audition. Students will receive information from the Art, Music, and Theater departments concerning auditions and portfolio reviews once they have been accepted to IUP.

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## **Admissions and Registration**

### **Freshman Applications**

- 1. Freshman Applications Information
- 2. Early Admissions
- 3. Processing the Application

#### **Freshman Applications Information**

Applications for admission will be available after July 1 following the student's junior year of high school.

All persons expecting to apply for freshman admission to IUP should plan to take the SAT or ACT test during their junior and/or early part of their senior year. The Admissions Committee recommends that students take the tests more than once. The committee considers the highest scores from all tests taken.

Arrangements to take the SAT or ACT tests can be made through the high school principal or counselor, or by writing to the College Entrance Examination Board, Box 592, Princeton, NJ 08540 or American College Testing, P.O. Box 168, Iowa City, IA, 52243 for an information pamphlet and a test registration form.

In order for the test scores to be received by IUP, the applicant should designate IUP on the test registration form as one of the universities to receive the scores, or the applicant can request that his or her school counselor forward test scores to the Admissions Office.

The applicant should give the completed application form and the nonrefundable \$30 application fee payable to IUP to his/her high school counselor or principal. The counselor or principal should mail the application and complete packet of admissions materials to the IUP Office of Admissions, 210 Pratt Drive, Suite 16, Indiana, PA 15705.

#### **Early Admission**

The Early Admissions Program permits students to enroll as college freshmen after completing the junior year in high school. Early admission applications must originate with the student's high school counselor and principal. Admission consideration will be given to those applications which contain a statement indicating explicit approval by the high school principal. Applicants are considered on an individual basis. The university Admissions Committee will exercise the final judgment as to university acceptance after a personal interview with the applicant. Early admission candidates are required to arrange for two separate interviews with Admissions counselors as part of the application procedure.

#### **Processing the Application**

- 1. The Admissions Committee reviews, with care and understanding, each of the several thousand applications that are submitted each year.
- 2. Decisions on applications are made on a rolling basis.
- 3. Applicants who are admitted to IUP may be invited to attend a program on campus to receive general information and discuss their academic and career plans with the college dean, faculty representative of their respective major, or other advisors.
- 4. A \$75 nonrefundable tuition deposit is due from all incoming students. This advance deposit payment will be credited toward the applicant's tuition.

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## **Admissions and Registration**

#### Transfer Admission

- 1. Transfer Admission Information
- 2. <u>University Requirements</u>
- 3. Transferring to the College of Education

#### **Transfer Admission Information**

A student who has been attending another institution of higher education and wishes to transfer to IUP must submit an application with the \$30 application fee, official transcripts of all postsecondary educational work, and an official high school transcript.

All admissions decisions are made on a rolling basis by the Admissions Committee. Under a rolling admissions policy, applications are reviewed as they become complete. Decisions can range from automatic acceptance, to request for additional information, to other alternatives.

Transfer applications (twelve or more postsecondary, college credits attempted) are reviewed on the basis of college coursework completed. Transfers are required to have at least a cumulative 2.0 GPA on a 4.0 scale (C average) from all schools previously attended for admission to most programs. The teacher certification program requires a minimum 2.5 cumulative GPA from all schools previously attended.

The evaluation of credits from other institutions of higher education is the responsibility of the Office of Admissions and the academic college dean who has jurisdiction over the student's desired major. Normally, courses considered for transfer are only those taken from institutions which are accredited by the six regional accrediting agencies. Each course is evaluated separately. The evaluation includes a review of the description, semester hours, and grade of each course along with the applicability of the course to the student's major at IUP. However, only credits transfer, not grade-point average. It has been the policy of the university that only courses with a "C" or higher grade will be accepted, except for two-year associate degree graduates of state-supported community colleges in Pennsylvania. No matter how many credits are transferable, the student must satisfy all of the degree requirements falling into the categories of (1) university requirements, (2) college requirements, and (3) department requirements.

**University requirements:** Since all students are obliged to fulfill a basic program in Liberal Studies consisting of 53-58 semester credit hours and there is a reasonable degree of flexibility in the Liberal Studies requirements, the transfer evaluator and the college deans will look to this area first for applicable credits for transfer. Most introductory courses are generally equivalent.

#### **Transferring to the College of Education**

Students who transfer from other colleges and universities to IUP and the College of Education and Educational Technology must complete application for Step 1 of the 4-Step Process, Teacher Certification. The appropriate forms will be sent to students by the College of Education and Educational Technology after they have been accepted.

Only students who have completed Step 1 of the 4-Step Process are eligible to take Core Education coursework. In some programs, students must meet these requirements to take professional courses as well. Students should consult with the department chairperson and/or program coordinator for their specific program.

Students who do not meet the cumulative GPA of 2.5 are not eligible for admission to the College of Education and Educational Technology. Students should reapply for admission when deficiencies have been met.

Some students may have compiled sufficient credits and coursework equivalencies to qualify for Junior Standing. Appropriate forms will be sent to admitted students by the College of Education and Educational Technology. Students should direct questions to the department chairperson and/or program coordinator for the selected major.

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## **Admissions and Registration**

### Residency requirements for awarding of degrees

The university requires that at least 45 semester hours, generally including the last 30 semester hours in a student's curriculum, must be earned by enrollment in courses at IUP; 15 of these semester hours must be in the student's major. It should also be noted that for community college graduates a maximum of 60 credit hours are transferable to this institution for the purpose of fulfilling a specific program of study. Excess semester hours, if any, may be transferred but cannot be used for fulfilling the minimum requirements for the degree.

To remain in good academic standing, transfer students must meet the same GPA requirements as those specified for all other undergraduate students. See section entitled "Criteria Governing Continuance at IUP."

The university accepts semester hours associated with "D" grades only when they are part of a completed associate degree earned at a publicly owned community college in Pennsylvania. These "D" grades will be treated in the same manner as those earned at IUP. This articulation policy was adopted by the Board of State College and University Directors in 1973.

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## **Admissions and Registration**

### **Part-Time Study (Nondegree)**

#### **Part-Time Studies Program--Undergraduate**

Part-Time Study (Nondegree) Part-time undergraduate study is available through the School of Continuing Education to any high school graduate or holder of a GED Equivalency Diploma. No SAT scores are required. Note: A TOEFL Score is required as part of the application for an individual whose native language is other than English. Those who are not U.S. citizens must submit a notarized copy of their current visa and I-94 card or alien resident card.

Applications are available from the Part-time Studies Program and must be submitted with documentation directly to the School of Continuing Education by August 15 for the fall semester and December 15 for the spring semester. A \$30 application fee is required. Applications submitted after established dates are not guaranteed consideration.

Transfer students may also apply to the School of Continuing Education for part-time study and must submit official transcripts for all previous college work attempted. An overall 2.0 GPA is required.

A student in the Part-time Studies Program is limited to a semester enrollment of no more than 11 semester hours and must apply for formal admission to a degree program before 30 IUP semester hours have been earned. Applications for degree candidacy must be filed by the midterm point of the fall or spring semester preceding candidacy. Specific requirements for GPA and IUP credit vary by degree program. The minimum credit criteria to apply for consideration for degree candidacy are as follows:

```
High School Diploma or GED15 IUP Credits2.0 GPAVeteran (DD-214 required)9 IUP Credits2.0 GPATransfer (with 12 or more credits)9 IUP Credits2.0 GPATransfer (with 11 or less credits)15 IUP Credits2.0 GPA
```

**Note:** A student who has applied and has been admitted by the Office of Admissions to a branch campus is not eligible to apply to the School of Continuing Education.

#### **Program for Visiting High School Students**

IUP permits the exceptional high school student to preview university life and earn regular college credit on a limited nondegree basis. The student must have completed the sophomore year with a minimum of a "B" average and have the written support of the high school principal or guidance counselor. The parameters of the student's enrollment are defined in consultation with the appropriate high school official and are limited to a maximum of 9 semester hours per semester. For further information, contact the School of Continuing Education.

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## **Admissions and Registration**

#### **Post-Baccalaureate Studies**

The Post-Baccalaureate Studies Program provides access to undergraduate courses to individuals who have an earned baccalaureate degree. Students may be seeking a second bachelor's degree, an additional teacher certification, or personal enrichment. Students may enroll on a full- or part-time basis based on personal preference and availability of coursework.

Applications are available from the School of Continuing Education. A completed application and official transcripts of all previous undergraduate coursework must be submitted for review by August 15 for fall semester and December 15 for spring semester. Applications not submitted by established dates are not guaranteed consideration. A \$30 application fee is required. The fee is waived for graduates of IUP.

#### **Second Baccalaureate Degree**

A student with an earned baccalaureate degree who wishes to complete the requirements for a second or subsequent bachelor's degree must make application and submit official transcripts indicating degree(s) awarded. The student must complete a minimum of thirty additional IUP credits beyond those earned in his/her initial bachelor's degree and meet the requirements for graduation established by the academic department and college in which the new degree is to be earned. It is not possible to receive two or more baccalaureate degrees simultaneously. However, a student may complete one or more secondary majors while earning the primary degree.

#### **Teacher Certification**

A student with an earned nonteaching baccalaureate degree who wishes to complete the requirements for Instructional Level I certification must apply as a second bachelor's degree student. A minimum cumulative GPA of 2.50 is required for consideration for admission. To earn Instructional Level I, the student must satisfactorily complete the prescribed courses in an IUP degree certification program at a minimum cumulative GPA of 2.5 and successfully pass the National Teacher Examination.

A currently Pennsylvania-certified teacher who wishes to add a new area of certification may apply to the School of Continuing Education under the category teacher certification. Individuals admitted to an additional teacher certification will follow an individually planned and approved course of study.

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## **Admissions and Registration**

### **Immunization Requirements**

Students are required to complete a Student Health Form documenting immunization status. See Health Services information in section "Student Programs and Services."

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## **Admissions and Registration**

# Readmission Policy for Students Who Withdraw from the University Voluntarily

Graduate students wishing to return to the university must contact the Graduate School at (724) 357-2222 for specific instructions. School of Continuing Education students should contact the School of Continuing Education at (724) 357-2292.

All other undergraduate students who have withdrawn from the university, or were not enrolled during the previous regular semester, must complete an Application for Readmission available in the Office of the Registrar, Clark Hall, or by calling (724) 357-2377. During evening or weekend hours, you may call this same number and leave your name and address and a form will be promptly mailed to you. The readmission deadline for the Spring semester is December 1, and for the Fall semester is July 20.

All outstanding financial obligations to the university must be met before your Application for Readmission will be processed. Due to enrollment restrictions, requests for readmission to Nursing or the College of Fine Arts will be forwarded for approval by a representative from that department or college.

Requests for readmission for academically dismissed students will be forwarded to the Office of the Dean of the college in which the student was enrolled at the time of dismissal for a decision on the student's readmission.

Readmitted students who have not been enrolled for two years or more may petition their college dean for application of the Canceled Semester Policy. Students who have not been enrolled for more than five years may petition their college dean to return under the Fresh Start Policy. Students must pay fees and attend classes before a designated semester will be canceled or the fresh start policy will take effect.

Once your application for readmission has been approved, you will be sent instructions on how and when to register.

As a student readmitted to IUP, you are encouraged to complete the Free Application for Federal Student Aid (FAFSA) to determine your financial aid eligibility. Your financial aid eligibility will be based on your financial need, as determined by the FAFSA, and your prior academic record.

If you have previously attended a postsecondary school or schools other than IUP, a Financial Aid Transcript must be completed by this previous school and sent to the IUP Financial Aid Office.

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## **Admissions and Registration**

### The Summer Sessions

The summer school program at IUP is designed to meet the needs of many students. Courses, workshops, and seminars are offered in the liberal arts, teacher education, and other fields of study.

Continuing university students, including newly admitted freshmen, who wish to accelerate their program of studies will find both Liberal Studies and special courses in all fields of study. Students from other colleges and universities may take courses at IUP; however, they are advised to first ensure that their home institution will transfer such credits earned at IUP.

Teachers-in-service will find courses in the summer program to serve a variety of needs. They may enroll to qualify for permanent certification, take refresher courses in their field of specialization, or take courses for the purpose of extending their certification to a new field.

The Summer Sessions Schedule can be obtained by contacting the Scheduling Center, Clark Hall (toll-free number 888-800-3190). The schedule can also be viewed on the World Wide Web at <a href="http://old.www.iup.edu/summer">http://old.www.iup.edu/summer</a>.

Attendance at summer sessions undergraduate school is open to all students but does not constitute admission or readmission for continuing registration in the fall and/or spring semesters. Students in good standing who desire admission must obtain an application through the Office of Admissions or the School of Continuing Education, as appropriate. Students who desire readmission for the fall semester must apply to the Registrar's Office by the preceding July 20 and by December 1 for the spring semester.

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## **Admissions and Registration**

### **English Language Programs for International Students and Visitors**

The American Language Institute (ALI) offers several noncredit, intensive English programs for international students and visitors from beginning through advanced levels each semester.

The English for Academic Purposes Program (EAP) is for applicants seeking to prepare themselves for study at any U.S. college or university. Enrollment in fall and spring semester is for fourteen weeks (20 hrs/wk). Midsemester admission is possible with the approval of the director. In summer semester, programs are offered for ten weeks. Students are placed at beginner, intermediate, or advanced levels by proficiency tests at the start of each program. An institutional TOEFL is administered at the conclusion of each semester.

The ALI also offers two less intensive programs: English for Specific Purposes (ESP) for graduate students entering specialized fields and English for Visitors (EV) for visiting professionals who seek improvement in English while experiencing life in the U.S. Special part-time credit programs can be arranged.

Cocurricular social and cultural programs are offered to all students.

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### **Finances**

#### \*Tuition Fees

#### \*Tuition Fees (as of May, 1999)

The tuition and fees set forth in this section were those in effect in May, 2000. The fee schedule is subject to change; these figures are to be considered simply as an estimate. A current fee schedule may be obtained by writing to the Admissions Office, IUP, by phoning 724-357-2230, or by visiting our website at <a href="http://old.www.iup.edu/stufinancialserv/">http://old.www.iup.edu/stufinancialserv/</a>.

The tuition for all full-time in-state students is \$1,896 per semester. This covers the keeping of student records, use of the library, student welfare, and laboratory facilities. An additional \$158 per credit will be charged for undergraduate credits scheduled in excess of eighteen. The tuition for part-time in-state undergraduate students is \$158 per semester hour. A part-time undergraduate student is one taking 11 or fewer semester hours. See the sections on Admissions and Registration and on Academic Policies for further information concerning part-time students. Out-of-state full-time students pay tuition of \$4,740 per semester. An additional \$377 per credit will be charged for credits in excess of eighteen. The tuition for part-time out-of-state students is \$395 per semester hour. The definition of an in-state student is based on domicile. An in-state student is one who has been domiciled in Pennsylvania for at least one year preceding attendance at any institution of higher education in the state of Pennsylvania. A minor is presumed to have the domicile of his/her parents or legal guardian. Students who have any question whatsoever concerning their domicile should read the official text of the rules, as published in Volume 22, Pennsylvania Code, Section 507.1 through 507.11.

\*The university reserves the right to change its fees without notice. For the most current fee schedule, see <a href="https://www.iup.edu/stufin">www.iup.edu/stufin</a>.

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### **Finances**

#### \*Other Fees

#### **Audit Fee**

Full standard fees will be assessed for each course audited, exception being persons on Social Security or equivalent retirement benefit, who will be given remission of basic fees for such classes where space is available.

#### **Bad Check Charge**

Students making checks payable to "Indiana University of Pennsylvania" which are not acceptable to the bank for any reason will be charged \$10 for each bad check in the amount of \$.01 to \$49.99 and \$20 for bad checks written for \$50 or more.

#### **Dining Plan Fee**

The semester fees for dining plans, effective June, 2000, are:

Meals provided through these plans are for the use of the contract holder only.

Flex money can be carried from fall to spring semester; however, any portion not used by the end of the spring semester **will be forfeited.** Flex may be used for guests.

#### **Educational Services Fee**

All students are charged a fee to support academic equipment and library resources. For full-time students the fee is \$75 per semester, and for part-time students the fee is \$35 per semester.

#### **Facilities Fee**

All students are charged a fee to support maintenance and repair projects, recreational facilities, and the advancement of technologies. For full-time students the fee is \$115 per semester, and for part-time students, the fee is \$57.50 per semester. Students scheduled for off-campus courses through the School of Continuing Education are exempt from this fee.

#### **Financial Delinquency Policy**

Registration is not complete until a student pays the fee for such registration and the university reserves for itself the right to bar a nonpaying student from classes. When it has been determined during the course of a semester that a student's account has become delinquent from accrued charges, the Registrar's Office will be notified of this delinquency and advised to refrain from reporting the student's grades and from issuing any transcripts for that student's work until the delinquent account has been satisfied. Faculty members will continue to submit a grade for the

financially delinquent student; however, requests from students will not be honored, and official reports will be released by the Registrar's Office only after the student has cleared his or her account or has established a payment plan satisfactory to the Accounts Receivable Office.

#### **Health Services Fee**

The mandatory student health fee is assessed each semester based upon enrollment status at the university. Full-time undergraduates are assessed Fee A and part-time undergraduates are assessed Fee B.

- **Plan A:** \$83 (mandatory for all full-time undergraduate students). Includes clinical and educational services as well as dispensing of commonly prescribed medications ordered by the Health Center medical providers. The health service does not fill prescriptions ordered by outside medical providers.
- **Plan B:** \$31 (mandatory for all part-time undergraduate students and full-time graduate students). The fee offers self-care cold clinic, flu shots, TB tests, and health and wellness programming.

Students enrolled in Health Service Fee B have the option of upgrading their service by paying Fee A or they may choose to pay a per-visit fee. Spouses of IUP students may enroll in A, B, or pay a per-visit fee. The student health fee is waived on a semester-by-semester basis only for students living more than sixty miles from campus or who are on internships or student teaching assignments at a site more than thirty miles from campus. Students attending branch campuses have health fee options and should contact their branch campus director. For further information on the health center, contact the University Health Service at 724-357-6475.

#### **International Student Orientation Fee**

An international student orientation fee of \$30 will be charged to all international students who register for the IUP orientation program to support associated costs.

#### **Late Registration Fee**

Students who desire to register on the day prior to the start of classes, designated by the university as Late Registration Day, will be assessed a Late Registration Fee of \$50. Students who register for classes after completion of the university's Late Registration Day will be assessed a Late Registration Fee of \$100. Exceptions to this fee may be granted by the provost or designee for students admitted late to the university for reasons deemed appropriate by the provost or designee.

#### **Medical Technology Administrative Fee**

A fee of up to \$75 will be charged to each student enrolled at IUP but attending classes at designated clinical facilities. Fees are \$20 (1-3 semester hours), \$40 (4-6 semester hours), or \$75 (7 or more semester hours). Tuition, room, and board charged for these students should be paid by the student directly to the hospital institution.

#### **Military Science Fee**

An activity fee of \$5 is required for ROTC cadets to cover the cost of Cadet Corps functions. This fee is payable directly to the military science department.

#### **Miscellaneous Costs**

In some courses, students are required to obtain supplies and materials to complete course projects. In many courses, a student may make a voluntary contribution to a cooperative fund established for the purpose of obtaining these supplies and/or services at a lower cost. Examples are art courses, field trips, etc.

#### **National Student Exchange Program Fee**

A one-time \$75 nonrefundable fee will be charged to IUP students participating in the National Student Exchange Program. Students attending IUP under the National Student Exchange Program will be charged the Pennsylvania resident basic fee and have the application fee waived.

#### **Off-Campus Instructional Fee**

An off-campus instructional fee of 10 percent of the undergraduate in-state tuition rate will be charged to students taking courses at an off-campus site and/or using distance education technology through the School of Continuing Education to cover operating costs for services and instructional support at off-campus sites.

#### **Registration Fee**

All students will be charged a registration fee of \$20 per semester.

#### Residence Hall Fee

The 2000-01 academic year room fees for residence hall students are \$1,103 a semester for a double-occupancy university residence hall room and \$1,661 for single university residence hall rooms. Resident students are required to have a dining plan and can select from five plans (see Dining Fees).

#### **Student Activity Fee**

An activity fee is collected from all students and administered through the Student Cooperative Association under regulations approved by the Council of Trustees. This fee of \$119.50 per semester covers the cost of student activities in athletics, lectures, entertainment, student publications, etc., and is payable in one sum for the semester. The Student Activity Fee is \$48.50 for part-time students. These fees apply to Indiana campus students only. Students attending the Armstrong or Punxsutawney campuses pay \$115 per semester full-time and \$44 part-time. (These fees are subject to change without notice during the academic year.)

#### **Testing Fee**

Each entering freshman must participate in placement testing during the summer immediately preceding the student's matriculation on campus. A fee of \$75 is assessed for this overnight, two-day experience for students admitted to the Indiana campus. Parents pay a nominal fee for their participation in the accompanying parent orientation program. Branch campus students participate in a summer one-day diagnostic testing experience with a fee of \$45. Students receive information about the summer testing program prior to the testing date(s). Fees are included in the regular billing and are nonrefundable. Please see the catalog section on Orientation for further information about the Summer Orientation: Preregistration Placement Testing, Advising, and Course Selections Program.

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# **Finances**

## **Estimated Expenses Per Semester**

Estimated Expenses Per Semester	In-State	Out-of-State
Instructional Fee Housing Meals Student Activity Fee Health Fee Educational Service Fee Facilities Fee Registration Fee Books and Supplies*	\$1,895 1,103 875 119 80 75 115 20 500	\$4,740 1,103 875 119 80 75 115 20 500
	\$4,782	\$7,627

Miscellaneous and travel expenses would be in addition to the above.

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<sup>\*</sup>Cost of books and supplies may vary depending on major and class enrollment.

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## **Finances**

#### Summer Sessions Fees

#### **Basic Fee**

The basic fee for in-state undergraduate students enrolled for any of the regular summer sessions is \$150 per semester hour. The basic fee for out-of-state undergraduate students is \$377 per semester hour.

#### **Dining Plan Fees**

The five-week session dining plan fees for summer, 2000, are:

Plan A - 19 meals a week	\$244 (or \$48.80/week)
Plan B - Any 14 meals a week	\$230 (or \$46/week)
Plan D - Any 10 meals a week	\$220 (or \$44/week)
Plan G - Any 5 meals week	\$135 (or \$27/week)

#### **Educational Services Fee**

All students are charged a fee of \$35 per summer session (or \$7/week) to support academic equipment and library resources.

#### **Facilities Fee**

All students are charged a fee of \$53 per summer session to support maintenance and repair projects, recreational facilities, and the advancement of technologies. For special summer courses, the fee is \$11 per week. Those students scheduled for off-campus courses through the School of Continuing Education are exempt from this fee.

#### **Registration Fee**

All students will be charged a registration fee of \$10 for each summer session.

#### Residence Hall Fee

The 2000 summer university dorm room fees are \$75 a week for a double-occupancy room and \$110 a week for a single room. Students are charged for each session according to the number of weeks they will require housing. Resident students can select from two dining plans, 19 meals/week or 14 meals/week.

#### **Student Activity Fee**

For each of the two summer sessions, this fee is \$40 per session. For special summer courses, the fee is \$8 per week.

#### **Student Health Fee**

Each undergraduate and graduate student enrolled in IUP summer sessions will be assessed \$31 for each session (or \$6 per week) for student health services.

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## **Finances**

## **Special Fees**

#### **Damage Fee**

Students are responsible for damages, breakage, loss, or delayed return of university property.

#### **Degree Fee**

A fee of \$30 will be charged each candidate for a degree at the time of approval of application for graduation. This fee is to cover costs of preparing diplomas and the graduation ceremony.

#### **Examination for Credit Fee**

A fee of \$40 will be assessed for each examination taken for credit.

#### **Installment Payment Charge**

A nonrefundable fee of \$30 per semester is charged to students participating in the monthly installment payment plan, and a \$10 per semester fee is charged for students participating in the semi-semester option of the plan.

#### **Portfolio Assessment Fees**

A fee of \$15 will be charged to students applying for prior learning evaluation, and a fee equal to one-half of the prevailing tuition fee will be charged for all credits granted in the portfolio application.

#### **Teacher Certification Fee**

A fee of \$40 will be charged to cover the administrative and recording costs for the issuance of a teaching certificate by the Department of Education. A \$25 fee is charged for students applying for out-of-state certification.

#### **Transcript Fees**

Applications for transcripts must be made only in writing to the registrar, either by U.S. mail or on forms available at the Registrar's Office in Clark Hall. Such requests must include

- 1. Your full name and Social Security number as of your graduation or termination of enrollment at IUP. (Please note any name changes since graduation.)
- 2. Your present address.
- 3. Whether you graduated or, if not, when you were enrolled.
- 4. The full and clearly stated name(s) and address(es) of person(s) to whom you wish the transcript(s) sent.

A transcript fee of \$5 is charged for each copy. Checks or money orders should be made out to Indiana University of Pennsylvania. An additional charge will be assessed for express transcript service. Please call 724-357-2217 for current transcript fee information.

Official transcripts (containing signature and university seal) will not be issued to students directly. The university will attempt to mail official transcripts within a reasonable time. However, in the event of its failure to do so, damages will be limited to the fee, if any, paid by the student for the copy or copies of the transcript. In no case is the university responsible for consequential damages.

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# **Finances**

## **Billing and Payments**

All bills, including basic fee and housing fee, are payable as specified on the billing notice; students have several payment plan options. Checks or money orders, in the exact amount of the billing notice, should be made payable to IUP unless otherwise specified. MasterCard, Visa, and Discover cards are also accepted. Book Store purchases are on a cash basis.

It is desired that payments for the entire semester be made in August for the first semester and in December for the second semester; however, for a nominal charge an installment plan is available.

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## **Finances**

## **Payment of Financial Aid**

The following financial aid programs can be deducted from your university bill:

Federal Stafford Loan
Federal PLUS Loan
Federal Perkins Loan
Federal Pell Grant
Federal Supplemental Educational Opportunity Grant
Pennsylvania State Grant
IUP scholarships

Federal Work Study earnings are paid directly to the student every other week and thus are not used for billing purposes.

All other financial aid is paid directly to the student's account. If a credit balance exists after satisfying all IUP charges, excess funds will be refunded to the student for other educational expenses.

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## **Finances**

## **Delinquent Accounts**

Students will not be permitted to enroll for any semester, receive transcripts, or graduate until all account balances have been paid in full. In addition, credit will not be certified to any other institution or the Department of Education until all overdue accounts have been paid. A late payment fee of \$10 for each day past the due date will be assessed for delinquent accounts up to a maximum of \$50. The same regulations will also be applied to inter-semester payments.

Undergraduate students desiring to leave school before the close of a semester must report to the Advising and Testing Center and to the Accounts Receivable Office to settle all unpaid accounts.

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# **Finances**

## **IUP Refund Policy**

For a copy of IUP's Refund Policy or a sample refund calculation, please contact Student Financial Services at 724-357-2207. The Refund Policy is also available on their website at <a href="www.iup.edu/stufinancialserv/stinfo">www.iup.edu/stufinancialserv/stinfo</a>.

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## **Finances**

### **Financial Aid**

The <u>Financial Aid Office</u>, located at Clark Hall, offers financial information and counseling to all students attending IUP. The types of financial assistance offered by the Financial Aid Office include student employment, educational loans, and grants. Counseling on debt management and loan repayment options is also available.

#### **Eligibility Requirements**

The general requirements for financial aid eligibility include the following:

- 1. Be enrolled on at least a half-time basis (six credits per term) except for the Federal Pell Grant program.
- 2. Be a U.S. citizen, national or permanent resident, or other eligible noncitizen.
- 3. Maintain satisfactory academic progress in your course of study.
- 4. Be enrolled or accepted for enrollment in an Associate Degree, Bachelor's Degree, Post-Baccalaureate Teacher's Certification program, or Post-Baccalaureate Second Undergraduate Degree program.
- 5. Not be in default or have failed to make satisfactory arrangements to repay any Federal Student Loans. Not owe a repayment on a Federal Pell Grant or Federal Supplemental Educational Opportunity Grant.
- 6. Not have borrowed in excess of any Federal Loan limits.
- 7. Register with the Selective Service Administration, if required.
- 8. Submit Financial Aid Transcripts from all other postsecondary schools you have attended.
- 9. Have a valid Social Security Number.

Students must complete a Free Application for Federal Student Aid (FAFSA) prior to April 15 in order to receive maximum consideration for need-based financial aid administered through the university. The Title IV school code for IUP is 003277. Additional forms or applications may be required depending upon which student aid programs are being sought. Financial aid is available for both the regular academic year and the summer sessions. Separate applications for summer school aid must be submitted by the student.

#### **Student Responsibilities**

Students who apply for financial aid have certain responsibilities which are listed below:

- 1. Accurately complete and submit the appropriate application forms by the published deadline dates.
- 2. Submit requested materials, corrections, or new information on a timely basis.
- 3. Submit requested materials, corrections, or new information on a timely basis.
- 4. Meet the regulations and repayment schedules of student loans.
- 5. Inform the Financial Aid Office of any grants, scholarships, or loans received from outside organizations.
- 6. Inform the Financial Aid Office of any information that has changed since applying for aid.
- 7. Understand the satisfactory academic progress requirements for maintaining financial aid eligibility.
- 8. Use financial aid funds for educational purposes only.

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## **Finances**

## **Financial Aid Programs Available**

Financial assistance is available in the form of grants and scholarships, student employment, and educational loans. Each of these funding sources has unique characteristics which are explained in more detail below.

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## **Finances**

#### **Employment**

Employment programs provide an opportunity for students to earn money to help finance their educational expenses. Students may be employed at minimum wage for up to 20 hours per week when classes are in session and up to 40 hours per week during vacation periods. Wages for hours worked are paid every other week directly to the student. However, there are generally more students seeking employment than there are jobs available. Students with workstudy awards are not guaranteed that they will obtain employment.

Students are responsible for securing their own positions on campus. A listing of available positions is posted in an employment binder located in the Student Employment Center (302 Pratt Hall, Office of Career Services) or by accessing the College Central online. Registration procedures for College Central are available in the Student Employment Center and at the Financial Aid counter in the lobby of Clark Hall. Registering with College Central will enable students to conduct their part-time job search 24 hours a day.

#### Federal Work-Study Program (FWSP)

Eligibility for FWSP is based on financial need. Students must complete both the *Free Application for Federal Student Aid* (FAFSA) and an *IUP FWSP Application*.

#### **Community Service Program**

This employment program places FWSP-eligible students in community service positions available both on and off campus. In addition to earning money, students gain practical work experience related to their academic major. The Student Community Service Office located in 103 Pratt Hall assists students with placement.

#### **University Employment (UE)**

This program is similar to the Federal Work Study Program. However, students who do not demonstrate financial need may be employed. No financial aid application is necessary. Inquire directly with campus offices regarding available positions.

#### **PHEAA State Work Study**

Off-campus employment that relates to the student's academic major may be available through the PHEAA State Work-Study program. Applications are available in the Financial Aid Office and must be completed by both the student and the organization for which the student would like to be employed. Applications can also be accessed through PHEAA's web site at <a href="http://www.pheaa.org">http://www.pheaa.org</a>.

#### **Off-Campus Employment Opportunities**

IUP's Student Employment Center, coordinated by the Career Services Office, provides access to students for part-time and/or summer employment. The purpose of this program is to facilitate contact between the business community and talented undergraduate students who are interested in working while attending classes. A listing of available positions is posted in an employment binder located in the Student Employment Center (302 Pratt Hall, Office of Career Services) or by accessing the College Central online. Registration procedures for College Central are available in the Student Employment Center and at the Financial Aid counter in the lobby of Clark Hall. Registering with College Central will enable students to conduct their part-time job search 24 hours a day.

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## **Finances**

### **Educational Loans**

Loan programs offer repayable assistance to students who apply and qualify for them. Repayment terms, interest rates, and borrowing limits vary from program to program. Educational loans are a serious and important obligation. Receipt of funds means that the student assumes the legal responsibility for repayment of the loan at a future date. The promissory note for the loan specifies the terms and conditions under which the student is borrowing and the repayment provisions that are in effect. Participation in Community Service positions after leaving school may provide for repayment of certain student loans.

**Federal Perkins Loan** - The application for the Federal Perkins Loan is the *Free Application for Federal Student Aid* (FAFSA). The loan is awarded to students on the basis of financial need and FAFSA receipt date of April 15 or earlier. Students who receive this loan must be enrolled for at least six credits each semester. There are no principal or interest payments until nine months after the student ceases half-time attendance (six credits per term). The minimum repayment rate is \$40 per month at a simple interest rate of 5 percent per year on the unpaid balance. There are deferment and cancellation provisions available.

**Federal Stafford Loan** –The application for the Federal Stafford Loan is the *Free Application for Federal Student Aid* (FAFSA). By responding on the FAFSA that you are interested in a student loan, one will be processed for you. First-time borrowers will also receive a Federal Stafford Loan Master Promissory Note (MPN) in the mail for completion in order to finalize the approval process.

Through this program, freshmen may borrow up to \$2,625 per academic year, sophomores may borrow up to \$3,500 per academic year, and juniors and seniors may borrow up to \$5,500 per academic year. Subsidized Federal Stafford Loans are awarded on the basis of financial need as determined by the *Free Application for Federal Student Aid* (FAFSA) and require no payment of interest or principal until six months after the student ceases half-time enrollment (six credits per term). Unsubsidized Federal Stafford Loans require payment of interest only during periods of enrollment and the six-month grace period. Following the grace period, both types of Federal Stafford Loans are repayable to the lender at a variable interest rate not to exceed 8.25 percent.

Additional unsubsidized Federal Stafford Loan funds are available to independent undergraduate students. Freshmen and sophomores may request up to \$4,000; juniors and seniors may request up to \$5,000. Dependent students whose parents cannot obtain a Federal PLUS Loan may also apply for these additional unsubsidized funds.

**Federal PLUS Loan** – Parents interested in obtaining a Federal Parent Loans for Undergraduate Students should contact the Pennsylvania Higher Education Assistance Agency (PHEAA) in order to establish their eligibility for the loan through PHEAA's pre-approval process. PHEAA can be contacted at 1-800-692-7392. Applications will be forwarded to eligible families. Parents may borrow for their dependent children up to the cost of education minus other financial aid. The loans are repaid at a variable interest rate not to exceed 9 percent per year starting sixty days after the final check is issued.

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## **Finances**

## **University Loan Fund**

The Financial Aid Office, in conjunction with the Student Cooperative Association, administers the University Loan Fund on behalf of IUP students. Loans are only available to students who are expecting a financial aid refund that is yet to be disbursed. The maximum loan available will be \$300 with repayment to be made in sixty days. No interest will be charged for these loans. Loans will be made to meet educational expenses only. Applications for the University Loan and additional information may be obtained at the Financial Aid Office.

The University Loan Fund encompasses the following individual loan accounts:

Jennie E. Ackerman Loan Fund **Robert Bellis Loan Fund** Mary Edna Flegal Loan Fund **Colette Cromer Gershman Loan Fund Margaret Flegal Harte Loan Fund** Suzanne Marshall Hartman Loan Fund John Hays Memorial Fund Oliver W. Helmrich Memorial Loan Fund William Henzelmann Memorial Fund Mary Anne Kolessar Loan Fund Jane E. Leonard Memorial Loan Fund **Mack Loan Fund** Rusty Preisenderfer Memorial Loan Fund Flossie Wagner Sanford Student Loan Fund Varsity I Loan Fund Norah Zink Loan Fund

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## **Finances**

### Grants

Grants are funds which carry no obligation for repayment. These funds are awarded to the student on the basis of financial need.

**Federal Pell Grant** - The Federal Pell Grant program provides funds to eligible undergraduate students who have not earned a first bachelor's degree. A *Free Application for Federal Student Aid* (FAFSA) must be filed annually to apply for this grant. Awards are prorated based upon the number of credits for which a student registers.

**Federal Supplemental Educational Opportunity Grant** - Federal Pell Grant-eligible students are considered for Federal Supplemental Educational Opportunity Grants (FSEOG). A *Free Application for Federal Student Aid* (FAFSA) with a receipt date of April 15 or earlier. Students who receive FSEOG must be enrolled for at least six credits each semester.

**Pennsylvania State Grant (PHEAA Grant)** - PHEAA Grants are available to eligible part-time and full-time undergraduate students who are Pennsylvania state residents. Part-time recipients must also meet specific PHEAA income guidelines. You must complete a *Free Application for Federal Student Aid* (FAFSA) by May 1 to apply. Academic progress guidelines require that a student earn twelve new credits for each full-time semester for continued eligibility of grant funds. A maximum of eight full-time or sixteen part-time semesters of eligibility are permitted.

**State Grants** - Many state educational agencies offer grant assistance to students who study outside of their state of residency. Out-of state students are encouraged to investigate opportunities for grant funding from their home state.

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## **Finances**

## **Scholarships**

Departments, colleges, and the Provost's Office administer various scholarship programs that have been established by alumni and friends of the university. These scholarships serve to recognize academically talented students and assist them in financing their educational expenses. No general application is required for consideration. All eligible students are automatically considered for scholarship opportunities. Questions may be directed to the college dean or department chair of the student's intended major or current major for enrolled students.

**Eberly College of Business** 

College of Education

College of Fine Arts

College of Health and Human Services

College of Humanities and Social Sciences

College of Natural Sciences and Mathematics

Robert E. Cook Honors College

Miscellaneous Scholarships

Athletic Scholarships

School of Continuing Education

**Graduate School** 

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## **Finances**

## **Scholarships**

**Eberly College of Business;** Robert C. Camp, Dean; 724-357-2520

#### For Scholarship Information, contact:

Julie Moreland, Assistant to the Dean, 724-357-7889

*Scholarships for incoming freshmen:* 

**Robert and Irene Bozzone Scholarship** 

George M. Burke Memorial Fund

Marie A. Canedy Scholarship for Business

**Carino Family Business Scholarship** 

Charles L. Cooper/Accounting Alumni Scholarship

**Dressel Family Scholarship** 

Terry and Mary Jo Dunlap Scholarship

**Eberly College Brick Scholarship** 

**Eberly Family College of Business Scholarship** 

FCFC/NBOC Scholarship

Robert L. Hite Scholarship

**Eileen Quinn Hull Memorial Scholarship** 

**Indiana First Savings Bank Scholarship** 

Fred E. Kunkle (Evergreen Motors) Foundation for IUP Distinguished Scholars Award (awarded by the

**University Scholarship Committee**)

Arveta DeGaetano McNaughton Memorial Scholarship

National City Bank of Pennsylvania Scholarship

Carl E. Patchin Foundation for IUP Distinguished Scholars Award (awarded by the University Scholarship Committee)

**Everett and Lavina Peterman Scholarship** 

SandT Bank College of Business Scholarship

Virgil and Virginia Vaughn Family Scholarship

*Scholarships for currently enrolled students:* 

#### J. Donald Bartolomucci Scholarship

**Robert and Irene Bozzone Scholarship** 

**Carino Family Business Scholarship** 

Charles L. Cooper/Accounting Alumni Scholarship

**Dressel Family Scholarship** 

**Eberly College Brick Scholarship** 

**Eberly Family College of Business Scholarship** 

Fredericks Family Scholarship

Fredericks Michael and Company Scholarship Hart Chemical Entrepreneur Scholarship Eileen Quinn Hull Memorial Scholarship Edward and Cecelia Mackey Scholarship Office Systems and Business Education Scholarship Undergraduate Scholarship Murray M. Varner Memorial Scholarship

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## **Finances**

## **Scholarships**

College of Education; John Butzow, Dean; 724-357-2482

Scholarships for incoming freshmen:

Carol L. Moorhead Scholarship Ethel L. Morrow Memorial Scholarship Lulu Braughler Stewart Memorial Scholarship Barbara Stott Thomas Memorial Scholarship

Scholarships for currently enrolled students:

Jemima S. Boyd Scholarship

Maude O. Brungard Scholarship
Beverly Sue Clark Memorial Scholarship
Mary Flegal Harte Scholarship
Tony Kuczinski Memorial Scholarship
McFarland Scholarships
Helen Wood Morris Scholarship
Dr. Russel C. Nelson Scholarship
Pathways to Urban Education Scholarship
Felicia G. Renck Scholarship
Edwina Battle Vold Preservice Teachers Scholarship
Urban Teachers Leadership Scholarship
Margaret Walker Skiles Memorial Scholarship
Marion Welsch Memorial Scholarship

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## **Finances**

## **Scholarships**

College of Fine Arts; Michael J. Hood, Dean; 724-357-2397

Scholarships for incoming freshmen:

Wallis and Janet Braman Music Scholarship

Freshman Music Scholarship

Ann M. Hayward Music Scholarship

Gloria Bryan Johnson Memorial Scholarship

Orval and Marian Kipp Memorial Art Scholarship

Joanne P. Lovette Memorial Fund

William P. Moorhead Scholarship

Organ Music Scholarship

**Evelyn Swauger Memorial Scholarship** 

Theater-by-the-Grove Freshman Talent Scholarship

Scholarships for currently enrolled students:

Robert K. Alico, Jr., Memorial Scholarship

Lloyd and Libby Bastian Memorial Scholarship

M. Vashti Burr Memorial Award

**Charles A. Davis Music Endowment** 

Donald G. Eisen Scholarship

Thomas V. Frazier Memorial Scholarship

H. Eugene Hulbert Music Scholarship

Gloria Bryan Johnson Memorial Scholarship

Mary Helen Krouse MacDonald Memorial Scholarship

Benjamin T. Miller Art Scholarship

Mary H. Muldowney Music Scholarship

**Gary Olmstead Percussion Scholarship** 

Organ Music Scholarship

Shelly G. Portman Memorial Scholarship

Ralph Reynolds Memorial Scholarship

Ralph Reynolds Memorial Scholarship (Painting)

Frank Ross Memorial Scholarship

**Student Art Scholarship Award** 

James and Jamie Self Tuba Scholarship

Jean J. Slenker Memorial Art Scholarship

**Evelyn Swauger Memorial Scholarship** 

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## **Finances**

## **Scholarships**

College of Health and Human Services; Carleen C. Zoni, Dean; 724-357-2555

Scholarships for incoming freshmen:

Elizabeth LaVelle Scholarship Fund A. Laura Mateer Memorial Scholarship Susan Spurlin Peckman Memorial Scholarship

Scholarships for currently enrolled students:

**Grace J. Allman Safety Science Scholarship** 

Ella C. Bendix Home Economics Loan Fund

Alexa J. Boyer Emerick Memorial Scholarship

The Brody Family Nursing Scholarship

Susan E. Finley Scholarship for Home Economics

**Eleanor Gallati Scholarship** 

William G. Gressley Memorial Scholarship

Hoss's Steak and Seafood House Scholarship

**Eugene E. Lepley Memorial Scholarship** 

M. Jane Segar Longenecker Scholarship

Amy McCauley Memorial Scholarship for Respiratory Care

Marian A. Murray Scholarship

Ethyl V. Oxley, Opal T. Rhodes, and Helen C. Merriman Scholarship

Pittsburgh Home Economics Teachers Scholarship

Ella B. Seanor Leadership in Nursing Scholarship

Susan E. Shubra Scholarship

Kay Staszkiewicz Memorial Nursing Scholarship

**Student Awards - Nursing** 

**Betty Wood Scholarship** 

Ronald and Jean Zucchelli Scholarship

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## **Finances**

## **Scholarships**

College of Humanities and Social Sciences; Brenda Carter, Dean; 724-357-2480

Scholarships for currently enrolled students:

Mollie E. Bolling Memorial Scholarship

Nancy, France Scholarship Fund

Isolde A. Henninger Award

**Hunt-Pickering Study Abroad Scholarship** 

John F. Kadlubowski Memorial Scholarship for History

Dr. Yu-Chen Liu Memorial Endowment

Mexico Study Abroad Scholarship

Esko E. Newhill Award for Excellence

John J. Prandy Memorial Scholarship

David J. Rovnan Memorial Scholarship

David A. Schwartz Memorial Journalism Scholarship

**Gregory Spinelli Memorial Scholarship** 

Study Abroad - Foreign Language Scholarship

Valladolid Scholarship

Donald A. Walker Economics Scholarship

Jacque Alexis Watson Memorial Scholarship for Criminology

Milton and Sarah Weisberg Memorial Scholarships for Industrial and Labor Relations

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## **Finances**

## **Scholarships**

College of Natural Sciences and Mathematics; John S. Eck, Dean; 724-357-2609

Scholarships for incoming freshmen:

Edward N. Brown Memorial Scholarship Barry A. Day Mathematics Scholarship Natural Sciences and Mathematics Scholarship

Scholarships for currently enrolled students:

Ida Z. Arms Excellence Scholarship

Edward N. Brown Memorial Scholarship
Chairman's Scholarship Fund
Roy A. Daugherty Scholarship
William Heard Memorial Scholarship
Dr. Willard W. Hennemann, Jr., Memorial Scholarship
Stanley W. Lore Scholarship
Ronald L. Marks Scholarship
Mathematics Graduate Scholarship Fund
Arthur G. Morrell Memorial Scholarship
PPG Computer Science Scholarship
Albert R. Pechan Scholarship
Mildred M. Reigh Memorial Scholarship
Thomas Smyth Memorial Scholarship
Howard E. Tompkins Scholarship

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## **Finances**

## **Scholarships**

Robert E. Cook Honors College; Janet E. Goebel, Director; 724-357-4971

Scholarships for incoming freshmen:

Madeline T. Ackerman Memorial Scholarship

**ARAMARK Distinguished Scholars Scholarship** 

**Anthony and Emma Calvetti Morino Memorial Scholarship** 

Robert E. Cook Honors College Scholarship

Terry and Mary Jo Dunlap Scholarship

Natalie S. Fassett Scholarship Fund (awarded jointly with the University Scholarship Committee)

Theresa Hart Gramley Memorial Scholarship (awarded jointly with the University Scholarship Committee)

**Dorothy Brown Pettit Gregory Memorial Scholarship** 

Earl and Frances Kinney Memorial Trust Scholarship

**Kresge Foundation/Cook Honors College Scholarship** 

Colonel Leonard A. and Mary D. McQuown Memorial Fund (awarded jointly with the University Scholarship Committee)

Dr. and Mrs. Arthur W. Phillips Scholarship Fund (awarded jointly with the University Scholarship Committee)

T. W. Phillips Gas and Oil Company Scholarship

Florence Wallace Scholarship Fund (awarded jointly with the University Scholarship Committee)

**Board of Governors Scholarships** 

**Foundation for IUP Distinguished Scholars Awards** 

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## **Finances**

## **Scholarships**

Miscellaneous Scholarships; Diane R. Raybuck, Associate Dean of Admissions; 724-357-2230

Scholarships for incoming freshmen:

Gloria J. Croft Bolinger Memorial Scholarship

**Nadav and Nancy Baum Scholarship** 

**Ruth Bowman Memorial Scholarship** 

Iva Carlson Memorial Scholarship

**Foundation for IUP Volunteer Service Award** 

W.R. Hevner Family Scholarship

Patti Hurley Scholarship

Natalie S. Fassett Scholarship Fund (awarded jointly with the University Scholarship Committee)

**Theresa Hart Gramley Memorial Scholarship** (awarded jointly with the University Scholarship Committee)

**Kovalchick Family – St. Mary's High School Scholarship** 

Thomas and Flora McGrainor Memorial Scholarship

John W. McNaul Memorial Scholarship

Colonel Leonard A. and Mary D. McQuown Memorial Fund (awarded jointly with the University Scholarship Committee)

Frank E. Moore Family Scholarship Endowment

**Morino Family Scholars Award** 

G. William and Julia Musser Scholarship

Margaret M. Patton Foundation Scholarship

**Dr. and Mrs. Arthur W. Phillips Scholarship Fund** (awarded jointly with the University Scholarship Committee)

William E. Pierce Scholarship

President's/Corrine Menk Wahr Scholarship

Carino Queen Evergreen Scholarship

Joseph W. Serene Memorial Scholarship

Martha S. Scheeren Scholarship

Robert R. Sheetz Memorial Scholarship

Sons of Italy Recreative Club, Inc., Scholarships

Michael J. Supinka, Jr., Memorial Scholarship

**Tomb Family Scholarship Fund** 

**Vaughn Foundation** 

Florence Wallace Scholarship Fund (awarded jointly with the University Scholarship Committee)

Wienken and Associates Scholarship

West Branch Area High School Scholarship

Coraopolis Wolves Club Den IX Scholarship

**Board of Governors Scholarships** (awarded jointly with Honors College, Office of Admissions, and Office of Student Affairs)

**Foundation for IUP Distinguished Scholars Awards** (awarded jointly with University Scholarship Committee and Honors College)

Scholarships for currently enrolled students:

American Association of University Women Scholarship American Field Service (AFS) Scholarship **APSCUF Scholarship** Israel and Birdye Brody Scholarship Dr. Howard B. Buterbaugh Scholarship Fund Clark Scholarship **Foundation for IUP Volunteer Service Award** Robert Goldstrohm/Citizen's Ambulance Scholarship Harrisburg Alumni Chapter of IUP Scholarship Fund **Indiana County Alumni Chapter Scholarship IUP Student Ambassadors Scholarship Kuzneski Family Scholarship Miss IUP Scholarship** Margaret M. Patton Foundation Scholarship Lenora Pechan Scholarship Phi Delta Theta Memorial Scholarship William E. Pierce Scholarship Fund Carino Queen Evergreen Scholarship Saco Excelling Greek Scholarship **Ethel Seavey Simpson Scholarship** Senior Class Scholarship Award Patricia Shields Memorial Scholarship **Tomb Family Scholarship Fund** Wienken and Associates Scholarship

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Luhelen Grace Whisner Memorial Scholarship Zonta Club of Indiana Scholarship for Women

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## **Finances**

## **Scholarships**

Athletic Scholarships; Frances A. Nee, Athletics; 724-357-2779

Scholarships for incoming freshmen and currently enrolled students:

**Bratton-Hathaway Scholarship** 

**Martha Crooks Douds Scholarship** 

**Jack Crossan Memorial Scholarship** 

Owen J. and Virginia Dougherty Memorial Scholarship

**Michael Gendich Endowment for Athletics** 

**IUP Crimson Commons Scholarship** 

S. W. Jack Scholarship Fund

Harold Jacoby Memorial Scholarship for Golf

Ward C. and Sally B. Johnson Memorial Scholarship

Keystone Rehabilitation System's Men's Basketball Scholarship

Mr. and Mrs. Joseph Kovalchick Athletic Scholarship

Men's Basketball Scholarship

Regis A. McKnight Memorial Scholarship

**Bob McQuaide Memorial Scholarship for Football** 

Louis J. Nocco Scholarship

Larry Panaia Scholarship for Football

Raymond P. Phillips Memorial Scholarship for Football

Ruth Podbielski Scholarship

Willis Pratt Football Scholarship

Richard "Moe" Smith Endowment Scholarship

Sam Smith Football Scholarship

Cecil and Ann Spadafora Scholarship for Football

Cecil C. Spadafora IUP Golf Invitational Fund

Paul E. and Josephine F. Spears Scholarship

Gerald E. Stossel Memorial Football Scholarship

Student Co-op Women's Athletic Scholarship

Saul and Louise Waxler Memorial Scholarship

Women's Basketball Scholarships

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# **Finances**

## **Scholarships**

School of Continuing Education; Nicholas E. Kolb, Dean; 724-357-2209

Scholarship for a currently enrolled student:

**Continuing Education Part-time Scholarship** 

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# **Finances**

## **Scholarships**

Graduate School; James C. Petersen, Dean; 724-357-2244

Scholarship information is found in the Graduate School catalog, which can be obtained in Stright Hall.

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## **Finances**

### Other Resources

**Athletic Grants-in-Aid** - IUP participates in intercollegiate athletics as a Division II institution and awards Athletic Grants-in-Aid in accordance with NCAA rules and regulations. Interested students should contact the Athletic Director, Memorial Field House, IUP, Indiana, PA 15705; telephone: 724-357-2751.

**Residence Assistants** - Upperclass students and freshmen at the end of their first year may apply to become resident assistants at IUP. Students earn a room and board waiver, as well as a small stipend, by working as resident assistants in IUP residence halls. Application timetables and deadlines are advertised in The Penn and posted in the residence halls and other locations around campus. The application process requires references, individual and group interviews, and participation in a semester-long training program prior to selection. Resident assistants are selected on the basis of leadership, interpersonal skills, and the willingness and ability to serve as role models. Resident assistants must have and maintain a 2.2 grade-point average. For further information, please contact present resident assistants or residence directors or the Office of Housing and Residence Life, 308 Pratt Hall, IUP, Indiana, PA 15705; telephone: 724-357-2696.

**Private Scholarships** - Various service clubs, organizations, churches, schools, and industries offer scholarships to students. High school guidance offices, libraries, and hometown newspapers are often excellent sources for information concerning private scholarships. A valuable resource on the Internet can be found at <a href="http://www.fastweb.com">http://www.fastweb.com</a>.

**ROTC Scholarships** - Two- and three-year scholarships are available to both male and female students who are enrolled in the Reserve Officer Training Corps program. The scholarships pay for tuition, fees, and books, plus \$150 per month for ten months per school year. Interested students may obtain applications and criteria information by contacting the ROTC department in Pierce Hall at IUP.

Office of Vocational Rehabilitation Assistance (OVR) - Students who have physical or learning handicaps may receive educational benefits through the Office of Vocational Rehabilitation. In order to be eligible, students must satisfy the physical and financial requirements of the agency. For further information regarding OVR, students should contact their county office of vocational rehabilitation.

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## **Finances**

#### **Veterans Benefits**

The <u>Veterans Affairs Office</u> certifies enrollment for undergraduate and graduate students who may be eligible for veterans assistance.

Veterans, reservists, and children of deceased or disabled veterans should contact the Veterans Affairs Office prior to enrollment.

Veterans must submit:

- 1. Application for Benefits (VA Form 1990)
- 2. Certified DD214

Reservists must submit:

- 1. Application for Benefits (VA Form 1990)
- 2. Notice of Basic Eligibility (DD2384)

Children of a deceased or disabled veteran whose death or injury was due to service-related causes may be eligible for educational assistance from the federal government under Law 634 (Dependents Educational Assistance Act). Immediately upon acceptance to IUP, men and women who qualify for such assistance should contact the veterans counselor and submit:

- 1. The Eligible Veteran DD214
- 2. Survivors Education Form 22-5490
- 3. Application for Benefits (VA Form 1990)

A veteran receiving VA benefits must request a change in curriculum clearance from the veterans counselor before changing curriculum. Twelve credit hours are required to be considered a full-time undergraduate student by the Veterans Administration. The minimum full-time requirement for a graduate student is 9 credit hours.

In addition to regular sources of financial aid, veterans and dependents of veterans may be eligible for VA benefits. For further information, veterans are urged to contact the Veterans Counselor, Clark Hall, IUP, Indiana, PA 15705, 724-357-3009.

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# **Finances**

## Pennsylvania National Guard Educational Assistance Program (EAP)

The Educational Assistance Program has been established for members of the Pennsylvania National Guard. Students who make a commitment to serve in the Pennsylvania National Guard for six years may be eligible to receive a grant on a full- or part-time basis. If a student fails to fulfill his/her service commitment, any EAP grants which were previously received will be converted to loans and must be repaid with a 7-percent fixed annual interest rate. Applications and information are available from the individual's unit of assignment, the recruiting officer, or the Pennsylvania National Guard at 717-861-8530.

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## **Finances**

## **Financial Aid Sufficient Progress Policy**

In order to receive Title IV Federal Student Assistance, students must maintain satisfactory academic progress in their course of study. Students must be in compliance with both the university's Academic Standards Policy and the Financial Aid Sufficient Progress Policy in order to demonstrate satisfactory progress.

The Title IV Federal Student Assistance programs include the Federal Pell Grant, Federal Supplemental Educational Opportunity Grant, Federal Perkins Loan, Federal Work Study Program, Federal Stafford Loan, and Federal PLUS Loan.

A student who meets the standard of academic good standing of the Academic Standards Policy but who does not meet the standard of sufficient quantitative progress may continue in university registration but without financial aid eligibility for the federal Title IV aid programs.

A full statement of requirements for Satisfactory Academic Progress for Title IV Federal Student Assistance is available through the Financial Aid Office.

**Title IV Financial Aid Sufficient Progress Policy** The Financial Aid Sufficient Progress Policy applies to undergraduate students enrolled in the university.

**A. Sufficient Progress:** To be in good standing on a sufficient progress basis, a student must have earned at least 75 percent of the cumulative number of registered credits at IUP and complete his/her degree without exceeding 133 percent of the credits required for completion.

"Registered credits" is the number of credits for which a student is enrolled at the end of the Drop/Add period (for a student who was originally registered and charged at full-time status, and who reduces during Drop/Add to part-time status, the registered credits will be calculated as twelve).

Each student will be measured for sufficient progress annually after fall grade processing. This evaluation will determine if the student has a sufficient percentage of credits earned in order to be eligible for Title IV funding for the next financial aid award year (July 1 through June 30).

Students will be notified of their financial aid suspension status when a completed *Free Application for Federal Student Aid* (FAFSA) is on file in the Financial Aid Office.

**B. Financial Aid Suspension:** If a student does not meet the sufficient percent of progress evaluation after two consecutive annual reviews, then all Title IV aid for that student will be suspended beginning with the next financial aid award year (July 1 through June 30).

A student who is in this financial aid suspension status, however, will also be reviewed at the end of the spring semester and summer terms in order to evaluate whether or not the percent of progress has been met through additional coursework. If this improvement to 75 percent of progress is achieved, then the student's Title IV financial aid suspension will be rescinded beginning with the next term of enrollment.

**C. Time Frame for Degree Completion:** In addition to meeting the 75 percent of progress requirement, all students must complete their degree requirements within an established time frame. Since enrollment status may vary from semester to semester, the maximum time frame for degree completion is measured in terms of credits attempted at IUP plus any credits accepted in transfer to IUP.

An undergraduate student in a program requiring 124 credits must complete the requirements for a bachelor's degree without exceeding 165 credits, including transfer credits and IUP registered credits. Note that 165 credits represents 133 percent of the credits required for completion of the degree. For majors with graduation requirements in excess of 124 credits, the maximum number of IUP registered credits plus transfer credits would increase proportionally.

**D. Appeal Process:** For students who have experienced unusual circumstances which have led to a lack of sufficient progress, such as medical emergencies or death of a family member, a written appeal may be submitted to the Financial Aid Eligibility Review Board for consideration of reinstatement of Title IV aid eligibility.

A student who would like to appeal his Title IV financial aid suspension for the next financial aid award year must submit a written appeal to the Financial Aid Eligibility Review Board. This written appeal must specifically outline the reason(s) for the deficiency and how the student will make up this deficiency. For students who do not appeal for fall review, or who are denied an appeal for the fall semester, an appeal for reinstatement of Title IV aid for the spring term will be accepted for review.

After reviewing the written appeal of a student in Financial Aid Suspension, the Financial Aid Eligibility Review Board may decide to reinstate Title IV financial aid eligibility for specific periods of the next financial aid award year. All appeal letters will be answered in writing by the Financial Aid Eligibility Review Board as to the approval or denial of the requested financial aid reinstatement.

- **E. Reinstatement of Title IV Aid Eligibility:** For a student who has Satisfactory Academic Progress deficiency, one of the following must occur in order for that student to receive Title IV assistance:
  - 1. The student can reestablish eligibility for Title IV assistance by meeting the minimum requirements for Satisfactory Academic Progress through additional periods of enrollment at IUP.
  - 2. For a student who has not met the minimum criteria for Satisfactory Academic Progress due to unusual or mitigating circumstances and has filed an appeal(s) which has granted the student continuance of financial aid eligibility, Title IV aid funds may be reinstated.
- **F. Summer Sessions:** Summer session attendance may permit the student to enhance satisfactory academic progress through additional coursework. For this reason, all students who lack sufficient progress will be permitted to receive Title IV financial aid funds during this period of enrollment, providing that their overall GPA is at least 1.5. Students who have a GPA of less than 1.5 must meet with their associate/assistant academic dean in order to discuss an appropriate "academic action plan." Financial aid eligibility for summer sessions will be reinstated once documentation of this discussion is received in the Financial Aid Office.
- **G. Treatment of Audits, Incompletes, and Other Grades:** In order that a student fully understands how various grades and enrollments impact upon the calculation of Satisfactory Academic Progress, the following information is provided:
  - 1. Audits and "S" and "U" Grades: Because course audits and "S" and "U" grades carry no credits, they are not reviewed or counted for sufficient progress purposes.
  - 2. **Incompletes:** Designations of "I," "L," "R," and "\*" are treated as credits attempted/zero credits earned/no effect on QPA. However, these designations are treated as noncompleted credits and have an impact in the calculation of the percent of progress measure. (Note: The "\*" is an administrative symbol indicating that a grade was not submitted by the instructor at the time of grade processing.)
  - 3. "F" Repeat with Replacement: An "F" repeat with replacement is treated as credits attempted/credits earned/with the quality points of the new grade replacing the 0.00 QP of the original "F" grade. An "F" repeat has a positive effect on the QPA and the percent of progress even though it represents an additional number of

- credits attempted in regard to the percent of progress measure.
- 4. "D" Repeat with Replacement: Repeated classes that are "D" replacements to a student's record are treated as credits attempted/zero credits earned/with the quality points of the new grade replacing the 1.00 QP of the "D" grade. A "D" repeat with replacement may improve a student's QPA but decreases your percent of progress.
- 5. **Repeats with Averaging:** Courses that are repeated with averaging count as credits attempted/credits earned/with the quality points for the class averaged into the QPA. The maximum time frame for degree completion may be impacted by repeat with averaging classes.
- 6. **Withdrawals:** Designations of "W" and "Q" are treated as credits attempted/zero credits earned/no effect on QPA. Any type of "W" and/or "Q" designation is treated as noncompleted credits in the calculation of the student's percent of progress standing.
- 7. **Pass/Fail Grades:** Pass grades are treated as registered credits/credits earned/no effect on QPA. Fail grades are treated as registered credits/zero credits earned/with zero QP averaged into the calculation of QPA.
- 8. **Noncredit Courses:** Noncredit classes, such as those with Continuing Education Units (CEUs), are not used in measuring sufficient progress, since these classes cannot be applied towards degree requirements and no financial aid may be received for enrollment.
- 9. **Institutional Credits:** Institutional credits are counted as registered credits/credits completed. The QP for the course is not averaged into the student's overall QPA.
- 10. **Canceled Semester:** All credits for which a grade of "C" or better is earned in that canceled semester are counted as credits attempted/credits earned.
- 11. **Fresh Start Program:** Students who are readmitted under the Fresh Start Program will have their progress measured from their first semester of readmission without regard to prior enrollment.

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# **Student Programs and Services**

The services and programs listed in this section are the result of collaborative efforts by student affairs professionals and faculty to offer the IUP student a unique and fulfilling undergraduate and graduate student experience. All services, with the exception of the Speech and Hearing Clinic, Parking, Student Rights/Directory Information, Student Technology Services, and Computer Software Policy are under the direction of the Vice President for Student Affairs.

#### **Student Affairs Division Areas**

Harold D. Goldsmith, Vice President for Student Affairs Rhonda H. Luckey, Assistant Vice President for Student Affairs Theodore G. Turner, Assistant to the Vice President for Student Affairs

Advising and Testing: Catherine M. Dugan, Director

Athletics: Frank J. Condino, Director

<u>Career Services</u>: Mark E. Anthony, Director

Counseling Services: Kim Weiner, Department Chair

Financial Aid: Frederick A. Joseph, Director

Housing and Residence Life: Betsy A. Joseph, Director

Learning Center: Carmy G. Carranza, Director

<u>Student Activities and Organizations</u>: Terry Appolonia, Director <u>Student Cooperative Association</u>: Dennis V. Hulings, Director

<u>Student Development:</u> Sherrill A. Kuckuck, Director <u>University Health Services</u>: Randi S. Schneider, Director

The Division of Student Affairs offers a variety of services and programs that support the academic mission of Indiana University of Pennsylvania. These services and programs were designed to meet the needs of IUP students as they learn how to become leaders for tomorrow, live together in harmony, make ethical decisions, accept and appreciate diversity, identify and strengthen professional skills, develop good mental and physical health practices, and enhance ways to learn and impart knowledge.

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# **Student Programs and Services**

### **The Advising and Testing Center**

The Advising and Testing Center provides a variety of services to IUP students and faculty. The center runs the summer orientation program, offers career planning classes and computer-assisted career counseling to undecided majors, co-conducts registration for January freshmen and branch campus students, processes undergraduate total university withdrawals, serves the needs of students with disabilities, and assists in providing advising information to students and advisors.

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# **Student Programs and Services**

#### **Services for Students with Disabilities**

Disability Support Services (a unit of the Advising and Testing Center) is the primary agent for the provision of access for IUP students with physical and learning disabilities. Faculty and staff within the office serve to ensure IUP's program access compliance with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act. Students with disabilities are urged to register with the office. Services provided include, but are not limited to, early registration; assistance in locating accessible housing; equipment loan; test proctoring and reading; notetaking; recording of books; NCR paper; liaison with faculty, OVR, and BVS; and general advising and counseling. Further information may be obtained in 106 Pratt Hall or by calling 724-357-4067 (V/TD).

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# **Student Programs and Services**

#### **Athletics**

#### **Varsity Sports**

The university offers seventeen varsity sports for men and women. It competes at the Division II level of the National Collegiate Athletic Association and is in the Pennsylvania State Athletic Conference.

Men's sports offered in the fall include cross country and football. The winter sports include basketball and swimming. Spring sports are track and field, golf, and baseball.

Women's fall sports are tennis, cross country, soccer, volleyball, and field hockey. In the winter, the sports of basketball and swimming are offered. Spring sports include softball, track and field, and lacrosse.

#### **Intramurals**

A well-organized and varied program of intramural sports and athletic activities is conducted for men, women, and on a coeducational basis. Intramural handbooks are available in Room 101, Memorial Field House.

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# **Student Programs and Services**

#### **Career Services**

Career services are available to students and alumni, and career counseling is provided to students of all class levels as well as to alumni. In addition to career counseling, the primary functions of the office are to arrange for campus interviews, prepare a current file of job opportunities, maintain an extensive library of occupational information, conduct follow-up studies of graduates, and provide general assistance in the career planning and job-seeking process.

The Office of Career Services also receives and makes available to graduates and undergraduates information concerning summer employment.

The university does not guarantee positions, but IUP's record of placement is one of the very best in Pennsylvania.

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# **Student Programs and Services**

### **Career Exploration/Undecided Majors**

Students with undecided majors are encouraged to explore options for majors as early as possible while at IUP; to delay doing so may delay graduation. Students desiring to explore majors may take a 1-semester-hour course, <u>LRNC</u> 170: Career Exploration, taught by the Advising and Testing Center, or use the Career Exploration Center (CEC), 108 Pratt Hall. The CEC is open afternoons during the week. Appointments may be made by calling 724-357-5701.

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# **Student Programs and Services**

### **Counseling and Student Development Center**

#### **Counseling Services**

Counseling Services faculty members are psychologists who are assisted by advanced graduate students from the doctoral program in clinical psychology. These professionals facilitate the personal and emotional growth of students by offering confidential counseling and consultation on an individual and small-group basis. Beyond the health services fee, additional fees are not charged for counseling services.

The center provides consultation to faculty, staff, families, and friends of students regarding mental health issues. The center also conducts programs and workshops on a variety of topics, including stress management, eating disorders, grief, and healthy relationships.

#### **Student Development**

Student Development provides the following programs supervised by a faculty member and supported by graduate and undergraduate students: summer orientation for parents of incoming freshmen, orientation for entering students immediately prior to the beginning of classes, the Six O'clock Series, and various research projects regarding student opinions and/or satisfaction.

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# **Student Programs and Services**

### **Health Services**

The University Health Service operates an outpatient clinic and provides routine health care to students while classes are in session. The outpatient clinic is staffed with physicians, nurse practitioners, nurses, and educators. For emergency care, the local hospital emergency room is available (ER services are not covered by the health service fee). For students who have paid Health Service Fee A (\$83), the university will help support the cost of local ambulance service. If the student's health insurance policy does not include coverage of the ambulance service, the student will not be responsible for the cost of the ambulance service.

In addition to primary medical care, including some minor surgical procedures, some laboratory testing, and allergy injections, the University Health Service offers a self-care cold clinic and programs in chemical health, health education, and wellness. With rare exception for inclement weather and during regular hours, the health center has a van to transport students to local medical facilities for scheduled appointments.

Students pay a per-semester mandatory health fee, which varies based upon the student's enrollment status. Refer to the Finances section of this catalog for fees. The health service fee is not an insurance plan. It is highly recommended that students who are not covered under a family insurance plan consider purchasing coverage prior to arriving at IUP.

IUP requires documentation of dates of immunization from new students for the following vaccines: measles, mumps, rubella, tetanus, toxoid-diphteria, and polio. Individuals born after 1956 should receive a second measles immunization prior to entering college. It has always been important to update diphtheria and tetanus immunizations every ten years. The health center recommends that students living in residence halls also consider immunization for bacterial meningitis. The documentation must be included on the Student Health Form and can take the form of

- 1. dates of vaccinations by the health care provider who gave them or
- 2. date of illness with the disease diagnosed by a physician or
- 3. serum antibody level as determined by a blood test

Students will receive a copy of the Student Health Form from the Health Service after they receive notification of admission to IUP. The form must be returned to the University Health Service prior to the starting of classes. Students who do not provide documentation for immunization may be prohibited from registering for classes the semester following admission.

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# **Student Programs and Services**

#### **Student Health Insurance**

The university does not sponsor a group student health insurance plan. Students are encouraged to obtain private insurance to cover the costs of hospital-related expenses. The University Health Service does not bill insurance companies for services. However, students receive a copy of each visit which can be used if the individual chooses to bill his/her insurance company directly.

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# **Student Programs and Services**

#### **Residence Life**

IUP is a residential campus. Its thirteen residence halls and two apartment buildings are supervised by professional residence directors with backgrounds in student development or counseling or by graduate residence directors enrolled in the Student Affairs in Higher Education graduate program.

It is the policy of IUP to offer full, equal, and nondiscriminatory assistance to all students without regard to their race, color, religion, national origin, gender, ancestry, sexual orientation, or physical ability in both the placement in university housing and the furnishing of facilities and services in relation to that housing.

Specific programs and services offered within the residence halls provide a residential program which supports the academic mission of the university and fosters the development of a community in which the rights and responsibilities of each individual are clearly defined and respected.

Because residence hall living is seen as a positive educational experience, students are encouraged to live on campus unless they are commuting from home. In an effort to make residence hall living more responsive to individual needs, the university offers several living arrangements. Student options include coed or single-sex environments, interest floors related to academic majors; intensive study floors; a community service floor, and chemical-free floors. Students should consider these options carefully and select the one in which they would feel most comfortable.

IUP's two apartment buildings provide single student housing in an apartment-style setting. The university provides cable TV, local telephone service, Ethernet connections to the Internet, stove, refrigerator, kitchen table and chairs, beds, dressers, and living room furniture in each apartment.

Rooms/apartments are available to both undergraduate and graduate students enrolled at IUP. Each year the university reviews its housing policies and revises them according to needs for the following year. The Office of Housing and Residence Life is also responsible for dining service and providing information and services related to off-campus housing. The Office of Housing and Residence Life is located in 308 Pratt Hall, 724-357-2696.

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# **Student Programs and Services**

## **Residence Hall Application**

First-year and transfer students will be offered residence hall contracts as soon as they remit the \$75 tuition prepayment required to secure a place in the incoming class. The contract should be reviewed carefully and returned with an \$80 housing prepayment. Rooms will be assigned as contracts are received. Students will be notified of housing assignments after July 15.

Continuing students may contract for university housing for the following academic year according to the process published and posted in January.

Students being readmitted or returning from student teaching or study abroad programs should contact the Office of Housing and Residence Life for contracts.

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# **Student Programs and Services**

# **Dining Services**

IUP offers six meal plans, five of which are available to residence hall students. Refer to the Finance section of this catalog for <u>meal plans and fees</u>.

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# **Student Programs and Services**

### **Residence Hall Association**

The Residence Hall Association (RHA) represents all students living in university residence halls. The executive body of RHA is composed of elected representatives from each residence hall. The purpose of RHA is to provide educational, social, and community service programs for residents; to collect information on various aspects of residence hall life; and to assist in formulating housing policies and procedures. All residence hall students are encouraged to participate in RHA. Inquire at your residence hall office for involvement opportunities.

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# **Student Programs and Services**

# **Learning Center/Act 101**

The Learning Center provides various academic support services. Courses are offered which develop learning skills to enhance academic success. Courses in two levels of pre-college mathematics (<u>LRNC 090</u>, <u>LRNC 095</u>) and two courses in reading (<u>LRNC 070</u>, <u>LRNC 075</u>) are offered for institutional credit. Institutional credit counts in determining full-time enrollment status but not in determining credits applicable for degree eligibility at graduation.

Learning Center faculty members also offer three one-credit courses in <u>Educational Planning (LRNC 150)</u>, <u>Learning Strategies (LRNC 160)</u>, and <u>Career Exploration (LRNC 170)</u>.

The Learning Center provides educational support services for all IUP students in the areas of reading, writing, mathematics, biological and physical sciences, foreign languages, social sciences, study skills, and related areas. These services are provided by both professional and undergraduate paraprofessional staff. Students are encouraged to participate in a broad array of program services including one-to-one and group tutorials, workshops, and supplemental instruction (SI) sessions provided by a trained staff of undergraduate paraprofessionals. These services are available in most content areas, as well as in general study skills.

All students matriculating through the Learning Center receive a full program of freshman-year courses and advisement, including assistance in the areas of academic tutoring, career counseling, financial aid information, personal counseling, academic advising related to curriculum concerns, the selection of an appropriate major, and course scheduling.

Students identified as eligible for Act 101 support receive the Learning Center freshman program also. The Act 101 Program, created as a result of the Pennsylvania Higher Education Equal Opportunity Act 101 in 1971 by the legislature of the commonwealth, focuses on servicing IUP students in order to make the ideal of "equal educational opportunity" a reality for all qualified students.

The Learning Center office is located in 202 Pratt Hall. Further information about the Learning Center and the Act 101 Program can be obtained by calling 724-357-2729.

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# **Student Programs and Services**

#### **New Student Orientation**

IUP offers a two-part orientation program for all new students. Freshmen are expected to participate in both of the programs, as they are intended to provide information and programs which are designed to insure a successful first-year experience.

**Summer Orientation:** The preregistration placement testing, advising, and course selection program occurs during the summer immediately preceding students' matriculation on campus. This experience is designed to assess academic readiness for courses integral to the IUP curriculum, including English, mathematics, and foreign languages. Students admitted to the Indiana campus, Honors College, or the Learning Center program participate in an overnight, two-day experience which includes testing, academic advising, and orientation to university curricular requirements and cocurricular opportunities. Students who are admitted as branch campus freshmen participate in a one-day program. Concurrent parent orientation programs are offered.

**Fall Orientation:** Fall Orientation occurs as students move onto campus immediately prior to the beginning of fall classes. Programs and activities are designed to assure a smooth transition from the home environment to IUP's campus community.

IUP views this two-part orientation as unique and extremely important to freshman retention and satisfaction with the university. The freshman year is critical in regard to academic success. During this time, students must simultaneously develop academic competence in the college curriculum and adjust to the personal decision-making process college life affords. Each of the programs is designed to assist in this important college adjustment process. Freshmen are expected to participate fully in this two-part program.

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# **Student Programs and Services**

### **Student Activities and Organizations**

As participating members of the IUP community, students occupy a responsible role in governing and shaping campus life. Since a valuable part of education lies in participation in groups and activities where experience in leadership, social and community responsibility, intellectual curiosity, and religious interests can be met, active participation in varied organizations is available and encouraged.

There are currently more than 180 recognized student organizations at IUP advised by faculty or staff selected by the students. Students are also encouraged to initiate and support new groups which reflect interests not represented by existing organizations.

Under the supervision of the Office of Student Activities and Organizations and funded for the most part by the Student Cooperative Association, many activities are orchestrated by students and offer entertainment and cultural programs for the entire university community. These activities provide a significant opportunity for students to become more involved with their campus as well as to experience the growth and personal development that involvement provides.

Organizations and activities sponsoring many IUP events include The Entertainment Network (TEN), Artist Series, Black Emphasis Committee, Ideas and Issues Series, Summer Activities, and the University Concert Committee. Participation in these and other groups is strongly encouraged.

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# **Student Programs and Services**

## **African American Cultural Center**

The African American Cultural Center is dedicated to the enhancement of multicultural awareness and racial sensitivity. Through educational, cultural, and social activities, the center strives to foster growth, development, awareness, and sensitivity among all members of the university community. The center is staffed by two full-time professionals, graduate students, and work-study students.

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# **Student Programs and Services**

## **Student Community Services**

Student Community Services offers IUP students both curriculum-based and volunteer opportunities to explore, expand, and fulfill their altruistic interests. The office works closely with the nearly sixty Indiana County human service agencies to place students in supervised settings.

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# **Student Programs and Services**

### **Student Congress**

The Student Congress is the representative and recognized voice of IUP's student body. The Student Congress was created in the spring of 1989 to be a unified voice in a bicameral (two-house) arrangement. It is led by a president and a vice president elected at-large in a spring general election. The primary responsibility of the Student Congress House lies with the student members of various university advisory bodies, including the Student Cooperative Association Finance Committee, which allocates \$300,000 in support of university activities. Each member of the Student Congress Senate serves as a representative on the University Senate, the institution's chief governing body. The Student Congress meets biweekly. Every student enrolled at IUP is considered a member of the SC, and input is always sought and welcome.

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# **Student Programs and Services**

### **Student Cooperative Association**

The Student Cooperative Association has played an extremely broad role in the cocurricular life of the university for more than sixty years. All students, faculty, and staff who pay the Activity Fee are members of the association. Virtually all campuswide activities outside the instructional program are sponsored wholly or in part by the association.

The Activity Fee is the chief source of income for the association's programs. The student's I-Card will admit him/her free of charge or at a reduced fee to university social, cultural, and athletic events. Other income for the association comes from the profits of the Co-op Store and income from events sponsored by the association.

The Student Cooperative Association operates the Hadley Union Building, which houses the Co-op Store, and the Fitness Center. The Hadley Union Building, built by association members through the Activity Fee, offers many facilities for use by the university community.

The Co-op Recreational Park comprises 270 acres of wooded hillsides and fields. Included are a lodge building which will accommodate groups of up to two hundred people, a ski hut, an eighteen-station exercise course, cross-country skiing and hiking trails, a picnic shelter, an archery range, two softball fields, an outdoor ice rink, a golf driving range, outdoor batting cages, and a pond for fishing.

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# **Student Programs and Services**

#### **Student Publications**

*The Penn*, IUP's campus newspaper, is published three times a week during the fall and spring semesters by students wishing to gain practical newspaper experience. Interested students are advised to attend organizational meetings held in the beginning of each semester. *The Penn* will carry notices of subscription drives. Applications for staff positions may be obtained from *The Penn* office.

<u>The Source</u> (the student handbook) is distributed to all students electronically at <u>www.iup.edu/studentaffairs/source</u>. It includes rules and regulations, the extracurricular program, and general information of interest to students.

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# **Student Programs and Services**

### **University Judicial System**

IUP is an academic community within the society at large. As a community, it has formulated a code of standards and expectations which the university considers to be consistent with its purpose as an educational institution. IUP reaffirms the principle of students' freedom coupled with an acceptance of full responsibility for one's behavior and the consequences of such behavior. As a member of the academic community and of the larger society, a student retains the rights, protections, guarantees, and responsibilities which are held by all citizens.

The judicial system of IUP exists to review all alleged academic violations as well as violations of university regulations and/or federal, state, and local ordinances. The primary intent of this educational system is to create a positive behavioral change in the students while also protecting the rights of the members of the university community. The system will hold the students accountable for their actions when regulations or statutes have been violated. A complete statement of regulations is available in the student handbook at <a href="https://www.iup.edu/studentaffairs/source">www.iup.edu/studentaffairs/source</a>.

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# **Student Programs and Services**

## **Veterans Affairs**

The Veterans Affairs Office provides many services to veterans, including academic support, tutoring, housing assistance, financial aid, and general information. The Veterans Affairs Office is located in Clark Hall. For information on forms, please call 724-357-3009. The Federal Veterans Office telephone number is 800-827-1000.

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# **Student Programs and Services**

### Speech and Hearing Clinic\*

The Speech and Hearing Clinic, located in Davis Hall, offers both diagnostic evaluations and therapeutic services for speech, language, and hearing problems. The clinic also administers the speech clearance for teacher education programs.

These services are made available without charge to students regularly enrolled at the university to give the necessary assistance to alleviate deficiencies which would interfere with successful performance and progress in the university and in future work. Students are encouraged to use the facilities provided for them and may of their own initiative come to the clinic for help, or they may be referred by any faculty member or university official.

\*This service is available to IUP students but is not a part of the Division of Student Affairs.

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# **Student Programs and Services**

# **Parking\***

Students, faculty, and staff members who park vehicles in campus parking areas must register their vehicles with the Campus Police Office. Resident students will be issued parking permits for the following reasons: medical necessity, student teaching, or other academic need for a vehicle. A written application must be submitted to and approved by the Parking Authority Review Board. Parking will be available to resident students not meeting the aforementioned criteria. They may park for a fee in the Robertshaw lot. The Campus Police Office is located in Sutton Hall and can be contacted for information on parking as well as copies of the current rules and regulations.

\*This service is available to IUP students but is not a part of the Division of Student Affairs.

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# **Student Programs and Services**

### **Student Rights/Directory Information\***

The following information is considered directory information under the Family Educational Rights and Privacy Act (the Buckley Amendment of 1974) and may be released without the student's permission: name, address, telephone number, major, student activities, weight and height (athletic teams), dates and status of attendance, dates of graduation, degrees and awards received and where received, most recent educational institution attended, and e-mail username.

Students may request that this information not be publicly released by completing a form available in the Office of the Registrar, Clark Hall Lobby. Upon receipt of this signed form in the Registrar's office, all information will be withheld, even beyond graduation, unless the student requests in writing that this nondisclosure request be rescinded.

\*This service is available to IUP students but is not a part of the Division of Student Affairs.

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# **Student Programs and Services**

### **Student Technology Services\***

Student Technology Services (STS) provides proactive and reactive measures to assist the students of IUP with the orientation to and use of computers and other technology at IUP. One of the goals of STS is to provide students with a place to go for advice and assistance with the issues related to computers and other technology on the campuses of IUP.

STS includes a help desk for student questions. Students may contact STS via phone (724-357-2198), e-mail (Student-Helpdesk@grove.iup.edu), or via the web page at <a href="http://old.www.iup.edu/ats/sts/">http://old.www.iup.edu/ats/sts/</a>. Students are also welcome to visit the STS office at the back of the University Computer Lab at Mack for more personal assistance with their computer problems.

\*This service is available to IUP students but is not a part of the Division of Student Affairs.

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# **Student Programs and Services**

### **Computer Software Policy\***

It is the policy of IUP that contractually protected and/or copyrighted computer software shall not be improperly copied, distributed, or used by its employees, students, or affiliated organizations. It is the responsibility of each member of the university community to adhere to this policy and to enforce it with regard to those they supervise. If any member of the community has a question regarding the propriety of using software, he/she is responsible for contacting his/her supervisor for direction. The supervisor may in turn refer the questions to the director of Academic Computing of the Technology Services Center for a decision on what constitutes proper use. The full text of the policy adopted by University Senate and Council of Trustees in May, 1988, is available in the computer laboratories, from the TSC, and at <a href="https://www.iup.edu/academicaffairs/policies/software.html">www.iup.edu/academicaffairs/policies/software.html</a>.

\*This service is available to IUP students but is not a part of the Division of Student Affairs.

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# **Student Programs and Services**

### **University Computing Resources Policy\***

University resources are limited, and the right to use computing resources in the iup.edu domain does not extend to activities which unfairly deprive other potential users of access to computing resources or which impose an unnecessary burden upon the university. All users have an obligation to use resources responsibly, aware that their use does cost the university, the Commonwealth of Pennsylvania, and its citizens real money to provide.

Computing administration has an obligation to suspend activities which it deems to pose a clear and present threat to the efficient operation of and equitable access to university computing resources. Such suspension should, whenever practical, be accompanied by warning and a clear explanation of the inappropriate activity. The user has the right to appeal the suspension through the faculty, employee, or student judicial processes.

\*This service is available to IUP students but is not a part of the Division of Student Affairs.

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## **Academic Policies**

#### **Classification of Students**

In order to be classified as full-time, undergraduate students attending any regular academic year semester must be currently enrolled in at least 12 semester hours.

During the IUP summer sessions, a student must be enrolled in a total of 12 semester hours during the entire summer (Summer 1 and Summer 2) in order to be classified as a full-time enrollee.

Full-time classification for students enrolled in instructional periods which do not conform to the regularly scheduled academic sessions will be based upon the number of enrolled semester hours during that period of enrollment (e.g., 1 semester hour in one week of instruction would equal the minimum full-time certification standard).

For purposes of designating students by class, the following credit-hour classification ranges are used:

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Freshmen 28 semester hours or less Sophomores 29-56 semester hours Juniors 57-90 semester hours Seniors 91 semester hours or more
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Class designations are based on credits earned rather than credits attempted. Persons holding a degree and working for a second baccalaureate degree may be classified as seniors.

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# **Academic Policies**

### **Normal Semester Hour Loads**

A normal semester hour load is 15-17 semester hours. A student who wishes to schedule 18 or more semester hours must obtain approval from the dean of the college in which he/she is registered; approval will be predicated upon various criteria such as the student's demonstrated competencies, total courses, and specific conditions. If approval is granted, the dean will set the credit limit and make the appropriate computer entry. A student is responsible for paying a per-credit fee at the current tuition rate for each credit beyond eighteen.

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# **Academic Policies**

### Schedule Changes (Drop/Add)

The university registration system is characterized as one of continuous registration, using the Web. From the student's initial registration time for a given semester through the end of the drop/add period, a few days into the semester (except for specified restricted times), a student may modify his/her schedule to the extent that classes are available or permission to register for a closed or restricted section has been granted and entered into the computer system. Deadlines for the opportunity to drop or add sections can be found in the academic calendar on the Web at www.iup.edu/registrar/calendars. Each student is responsible for making appropriate computer transactions to ensure schedule accuracy. Note particularly that, while the department may enter permission to register for a section, the student must complete the actual registration transaction.

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## **Academic Policies**

## **Advanced Placement and Credit/Exemption Examinations**

Courses taken by students prior to college admission under the Advanced Placement Program of the College Entrance Examination Board may be recognized by the award of college credit or by exemption from required subjects. Those who earn a grade of 3, 4, or 5 in the Advanced Placement Examination will be granted credit toward the number of credit hours required for graduation.

For students who have had other unusual opportunities for instruction or have advanced in a given field, an opportunity to gain credit and/or exemption from a course is afforded through examinations. University Testing Services in the Career Services Office (302 Pratt Hall) offers credit options through the College Level Examination Program (CLEP).

Students have an opportunity to gain exemption or credit through successful completion of comprehensive examinations by requesting from the academic department an exam as a substitute for completing all the usual requirements of the course.

A student who passes an exemption examination will be exempt from taking that course in his/her academic program. When a student receives credit for a course by examination, the credit will be applied to graduation requirements just as though the course had been taken. If a student is granted exemption only from a course, he/she will be permitted to take a free elective in place of that course. This enables the student to specialize further, correct weaknesses outside the major field, build knowledge in an ancillary area, or be introduced to an entirely different area.

Courses for which credit or exemption are awarded by examination will not be used in the determination of gradepoint averages.

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# **Academic Policies**

## **Internship/Cooperative Education**

Students may apply for an internship if they have completed 57 semester hours and have at least a 2.0 GPA. Internship sites are normally located within a 500-mile radius of the campus. Overseas placements are located near an IUP center. Internships are available in state and federal offices; businesses at the local, state, and national level; state-related agencies; corporations; and foundations.

Students may apply for a co-op if they have completed 30 semester hours and have at least a 2.0 GPA. Two experiences are required. Sites are national and international. Placements parallel those of the internship program.

Because internships are viewed as an integral part of the student's academic program, students who are interested in specific internship programs should consult with the internship advisor in the department of their major. A maximum of 12 semester hours is applicable to an undergraduate degree program from any combination of co-op and internship experiences.

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## **Academic Policies**

## **Prior Learning Assessment Programs**

IUP offers several methods for earning university credit for college-level learning gained through work and life experience. Through the Office of Career Services, the College Level Examination Program (CLEP) offers standardized examinations in general and specific subjects. In addition, departmental examinations are also available in specific areas on a limited basis.

Where examinations are not available, portfolio assessment may provide the student with the opportunity to present evidence of learning for evaluation by a university faculty member. Through portfolio assessment, work and life experiences are evaluated to determine their appropriateness and applicability for university credit. Credits earned through prior learning assessment may not be applied toward university residency requirements for awarding of degrees. In addition, no more than one-half of the semester hours required for a student's major may be earned by CLEP, departmental examination, and portfolio assessment. Contact the School of Continuing Education for information regarding portfolio assessment.

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# **Academic Policies**

## **Policy on Prior Learning Assessment**

IUP has authorized a policy for assessment of prior learning that took place outside traditional classrooms in a procedure known as Portfolio Assessment. It is particularly designed for adults with extensive documentable knowledge from work experience, travel, independent study, or other out-of-class experiences.

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## **Academic Policies**

## **Portfolio Assessment: Principles**

- 1. Credit awarded through portfolio evaluation must conform to specific course titles listed in this catalog. Credit awards for general broad areas (block credit) will not be permitted.
- 2. In order to request a portfolio assessment, the student must be currently enrolled at IUP. Credit awarded must be intended for use as part of a degree or certification program.
- 3. Each department will determine the maximum number of semester hours to be awarded for prior learning for its major. In no case will more than one-half of the major be earned through CLEP, challenge examinations, and other forms of prior learning assessment.
- 4. Semester hours earned through portfolio assessment may not apply as residency credit for the purpose of awarding degrees.
- 5. Semester hours earned through portfolio assessment may be awarded only as regular course credit.
- 6. If a related examination is available through CLEP or if a challenge examination has previously been established for the course, a portfolio assessment of those semester hours will not be accepted.
- 7. Acceptance of portfolio assessment credits by the department will be indicated by the signature of the chairperson of the department offering the course. The dean of the appropriate IUP college and the dean of the School of Continuing Education must also indicate approval.
- 8. Students may qualify solely for undergraduate credit—not graduate credit.
- 9. The title of the course, the semester hours, and the indication that credit was earned through Portfolio Assessment will be recorded on the academic record.

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## **Academic Policies**

#### **Portfolio Evaluation: Procedures**

- 1. Student meets with the assistant dean for Credit Programs in the School of Continuing Education to determine the feasibility of earning semester hours through portfolio evaluation. Standard outlines of related courses are provided to student.
- 2. Preliminary Application Form Student must provide a resume and answer the following questions:
  - a. What have you learned that relates to this course?
  - b. Where and when have you learned it?
  - c. What documentation do you have that supports the claim?
- 3. A handbook to assist students in compiling a portfolio will be printed. It will show how to relate to the written portfolio learning gained through work experience, independent study, and other experiences. Evidence of learning through documentation of experience, completion of a project, and written examination will be explained. If there is sufficient demand, a workshop will be conducted to assist students.
- 4. Fees:
  - Application Fee per Assessment: \$15.00
  - Assessment Fee: one-half the current rate of tuition per credit for each credit requested; to be paid when portfolio is submitted for evaluation.
- 5. The application will be submitted to the assistant dean for Credit Programs. Upon approval, the chairperson of the department offering the course will be requested to suggest the name of a faculty member to the dean of the college for approval.
- 6. The faculty member will meet with the student to determine the technique of assessment or a combination of techniques to be used, including interviews, documentation, observation of performance, examination, etc.
- 7. After the portfolio has been prepared by the student, it will be submitted to the dean of the School of Continuing Education for review, then forwarded to the appointed faculty member for assessment.
- 8. The faculty member will evaluate the portfolio, then make a recommendation for or against the award of credit and the amount of credit in the form of a letter, which must be approved and countersigned by the chairperson of the department offering the course. The portfolio will be forwarded to the dean of the college which oversees the student's curriculum to approve and verify that the course will be accepted as part of the student's program. Finally, the portfolio is sent to the assistant dean of the School of Continuing Education, who will notify the student and the registrar.
- 9. The registrar will list the course title, credit, and an indication that credit was earned through Portfolio Assessment.

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## **Academic Policies**

## **Advisory Program**

A group of selected faculty members act as freshman advisors for entering freshmen in their departments. In some curricula the advisors continue with the same group of advisees from year to year. In other curricula the freshman advisors remain with their advisee groups only for the students' first year; under this program, the student is then assigned an academic advisor for the remaining years through to his/her degree in a chosen field.

Faculty advisors counsel the students on academic achievement, dropping courses, changing curriculum, student activities, study schedules, and personal problems.

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## **Academic Policies**

## **Changes of Major**

For students changing majors into the College of Education and Educational Technology or into the Eberly College of Business and Information Technology, special policies apply. Please refer to the individual college sections in this catalog for change of major policies pertaining to specific colleges and majors.

To qualify for change of major, a student must be in academic good standing (2.00 GPA) *and* must meet any other requirements specific to the major. Criminology majors and all teacher certification programs have requirements beyond a 2.00 GPA.

A student must apply for a change of major in the office of the dean of the college in which the student is registered if the curriculum change desired is from one department to another within the same college (for example, change from a mathematics major to a biology major) or in the office of the dean of the college to which the student wishes to transfer if the curriculum change is from one college to another (for example, secondary education major to biology major). In either case, the student will complete an application form that is available in the dean's office. Before seeking a change of major, it is advisable that the student consult with the departmental chairpersons of both the "old" and "new" majors.

When a student changes colleges, the dean (or dean's agent) of the college into which the transfer is sought will evaluate the student's credits before approving the transfer. A copy of the evaluation will be made available to the student and his/her new advisor if a change of major is effected.

In cases involving students who are veterans, the dean of the college into which transfer is sought (or dean's agent) shall give the veteran a statement of prospective approval and the effective date of the proposed changes. This statement shall also indicate the amount of extended training time the change of major will entail and the amount of credit loss, if any. The veteran shall take this statement to the veteran's counselor at least one month prior to the effective date of the change. No transfer of curriculum shall be made by veterans until V.A. approval has been assured.

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# **Academic Policies**

## **Sophomore Screening for Junior Status Approval**

General policy at IUP permits each college to determine its own scheme for evaluating the development and progress of its major students. However, each college is expected to employ some effective procedure for such evaluation.

Several of the colleges use a procedure called "Sophomore Screening for Junior Status Approval" with the following required: All students (in such a college) enrolled in their fourth semester or who will complete 57 semester hours attempted by the end of the current semester must apply for Junior Status approval by filling out an application form by the deadline date designated and announced.

All students should check with their faculty advisors to determine which colleges use the "Junior Status" screening procedure and the criteria for Junior Status Approval.

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## **Academic Policies**

## **University Policy on Semester Course Syllabi**

Each faculty member shall prepare and distribute, without charge, to each student within one week of the first meeting of the class a semester course syllabus. The syllabus will be consistent with course content and catalog description, which was approved by the Curriculum Committee of the University Senate for the initial course offering or revision.

The semester course syllabus is a vehicle of communication to promote student academic planning and to avoid misunderstandings of course plan and requirements.

#### It is recommended that each syllabus include:

- a. the faculty member's name, office location, telephone number, and office hours
- b. an outline of the course content, objectives, and prerequisites, as appropriate
- c. information about the required textbook(s) with title, author, and edition, and any other required materials
- d. information on the determination of grades, including the weight, types, and scheduling of evaluations, other planned requirements, and expectation for class participation
- e. statement of policies and/or penalties for make-up exams and late submission of assignments

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# **Academic Policies**

## **Undergraduate Course Attendance Policy**

The university expects all students to attend class.

Individual faculty members may define attendance standards appropriate to each course and the consequences of not meeting those standards, within the following guidelines:

- 1. Each policy must be distributed in writing during the first week of the course. Normally, it is expected that the information dealing with class attendance standards will be distributed with the Semester Course Syllabus.
- 2. Each policy must recognize students' need to miss class because of illness or personal emergency.
- 3. Each policy must define some limited level of allowable absence, normally at least a number of clock hours equal to course semester hours.

Approved May 13, 1994, Council of Trustees

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## **Academic Policies**

## **Anticipated Class Absence for University Representation and Participation**

The university community recognizes the values of student participation in cocurricular and extracurricular activities of the university. IUP has fostered this participation with an informal policy of good faith accommodation to meet overlapping demands of the curricular and extracurricular commitments.

The underlying spirit of good faith accommodation ultimately is set in the faculty member's unabridged right to determine the terms of variance, if any, from the established course syllabus—tests, quizzes, due dates for papers or other assignments, projects, presentations, and all other course operations.

In seeking variance, the student must take the initiative to make all arrangements including validation of participation as needed. The student should generally assume that papers and such assignments should be completed and submitted before the anticipated class absence. Alternate arrangements for tests, quizzes, labs, or class participation activity (panels, simulations, presentations) should be sought sufficiently in advance to permit faculty/student agreement on the plan for completion, whether the actual completion is rescheduled to be prior to or subsequent to the anticipated absence.

Approved by Council of Trustees - May 13, 1988.

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## **Academic Policies**

## **Inclement Weather Policy**

Indiana University of Pennsylvania is committed to the safety and security of its students, faculty, staff, and visitors. Because of this commitment, the decision whether the university should close or remain open during periods of adverse weather conditions is based on the overall concern for the university community. In general, however, IUP's practice will be to remain open and to conduct classes and business as usual during periods of inclement weather.

Closure of the University: Should adverse weather conditions arise or be anticipated that would make it inadvisable to operate the university on a given day, the president may, at his discretion, close the institution (i.e., cancel all classes and on-campus activities at all campuses). In the event of either a full- or partial-day closure, notification will be provided to the following radio and television stations: WDAD Radio (Indiana), WCCS Radio (Homer City), WJAC-TV (Johnstown), KDKA-TV and KDKA Radio-1020 AM (Pittsburgh), and WTAE-TV and WTAE Radio-1250 AM (Pittsburgh).

Cancellation of IUP-Sponsored Activities or Events in the Absence of University Closure: Should adverse weather conditions arise or be anticipated that would make it inadvisable to conduct an IUP-sponsored activity or event on a date when the university otherwise remains open, the sponsoring unit/department has the option to cancel or postpone the function. The sponsoring unit/department also assumes responsibility for notifying event participants of the cancellation/postponement in an appropriate and timely manner.

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# **Academic Policies**

## **Quality Points and Determining GPA**

In the grading system, the following grades are used in reporting the standing of students at the end of each semester or session:

Grade	Description	Quality Points
A B C D F P	Excellent Good Average Passing Failing Passing	4 quality points/semester hour 3 quality points/semester hour 2 quality points/semester hour 1 quality points/semester hour 0 quality points/semester hour 0 quality points/semester hour (for credit courses only.) (See Pass/Fail policy for more information.)
S U	Satisfactory Unsatisfactory	0 quality points (for zero-credit courses only) 0 quality points (for zero-credit courses only)
Other De	esignations (carrying	g no quality points):
I	Incomplete	Student was unable to complete the coursework due to unexpected illness or personal emergency. (See <u>I (Incomplete) Policy</u> for more information.)
L	Late Grade/ Continuing Course	Student work is expected to extend beyond a given semester.  (See <u>L (Late Grade, Continuing Course) Policy</u> for more information.)
Q	Total University Withdrawal	Used when a student has totally and officially withdrawn from the university for a given semester. The Q designation is not issued by instructors.  (See Total University Withdrawal Policy for more information.)
R	Research in Progress	Only to be used to indicate deferred status for graduate thesis and dissertation courses.
W	Individual Course Withdrawal	Used when a student has elected to withdraw from an individual course but not from all courses. The W grade is not issued by instructors. (See <u>Individual Course Withdrawal Policy</u> for more information.)
*	Grade not reported by instructor	No grade information was reported by the end of the normal grading period.

#### **Determining GPA**

Cumulative Grade Point Average (CGPA) is determined by multiplying the semester hours for a course by the quality points received for that course. Then, the total number of semester quality points for all courses is divided by the total number of semester hours attempted.

This information is maintained by the Office of the Registrar, with approval from the University Senate. Last Mod at 11:50 PM on 7/14/00.	ified

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# **Academic Policies**

## **Grading Policies**

Shortly after each semester or session, a grade report will be available to each student.

Quality points are not counted on credits from other schools, and a student transferring from another school is held responsible for quality points only on work taken at this university.

Institutional Credits are associated with remedial courses which are numbered below 100. Credits from institutional credit courses do not apply to degree requirements for graduation but are used in determining enrollment status (full or part time), including financial aid and athletic (NCAA) eligibility.

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## **Academic Policies**

#### **Academic Honors**

IUP recognizes academic achievement through Dean's Lists, Provost's Scholars, and graduation honors.

#### **Dean's List**

Undergraduate students receive recognition on the Dean's List for each semester (or summer sessions cumulatively) in which they earn at least a 3.25 GPA based on at least 12 semester hours of graded (not P/F) coursework.

#### **Graduation Honors**

Traditional Latin honors are awarded at graduation to first bachelor's degree candidates with appropriate academic records. Calculation is based on all undergraduate credits and quality points earned at IUP. Graduation honors are not granted for second (subsequent) degrees. The distinctions are:

Cum laude - 3.25 to 3.49 cumulative quality-point average

Magna cum laude - 3.50 to 3.74 cumulative quality-point average

Summa cum laude - 3.75 to 4.00 cumulative quality-point average

Beginning December, 1994, non-Latin honors are awarded to associate degree candidates. The distinctions are:

With Honor - 3.25 to 3.49 cumulative quality-point average

With High Honor - 3.50 to 3.74 cumulative quality-point average

With Highest Honor - 3.75 to 4.00 cumulative quality-point average

#### Provost's Scholar

Juniors who have a cumulative GPA of 3.50 and above at the beginning of the fall semester are named Provost's Scholars and are recognized annually.

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# **Academic Policies**

## **Audit Policy**

All audited courses will be identified as such on the student's grade report and transcript. Work taken on an audit basis will not be graded and will not count toward the fulfillment of requirements for a degree to be awarded by IUP. Since semester hours attempted and quality points will not be awarded for audited courses, they will not affect the student's grade-point average in any way. Auditors will pay normal tuition and such other fees as may be required for the course.

To audit an undergraduate course, a person must be admitted to the university and have met course prerequisites. Students wishing to audit a course for which they registered should obtain a Course Audit Form from the office of the department offering the course. To audit a course not previously registered for at registration, students must first register for the course before filing a course audit form. All audit processing, including revocation of previously requested audit classification, must be completed during the regular drop/add period. Copies of the completed form are returned to the Registrars Office, to the department chairperson, and to the student. Audit students have the same privileges as other students in all coursework. There is no limit on the number of courses which may be audited.

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## **Academic Policies**

## **Pass-Fail Policy**

The purpose of pass-fail is to permit a student to take an elective course in a field of personal interest where he/she may be competing with major students in the department in which the course is offered. When scheduled, such a course shall be included in the student's normal course load for the semester.

A student may take courses on a pass-fail basis to a total of 15 semester hours throughout his/her university career. The student is limited to one pass-fail course in any given semester during the sophomore, junior, and senior years. All courses in the student's Liberal Studies program and courses required to meet major and minor requirements are excluded from this prerogative.

The student must declare his/her intent to choose pass-fail in a specific course no later than six weeks after the beginning of the semester or the equivalent timespan in a summer session. Once declared, this pass-fail option may not be revoked. Instructors will not be notified of the identity of pass-fail students in their courses. The grade given by the instructor will be translated to a "P" or "F" during the processing of grades.

A student shall be given academic credit without quality points for a course taken pass-fail upon receiving a passing mark in the course. The semester hours successfully completed under pass-fail ("passed"), within the overall 15-semester-hour limitation, shall be recorded as counting towards the total semester hours earned for graduation but not towards the semester-hours-attempted data used in calculation of the cumulative grade-point average. However, if a student fails a pass-fail course, he/she will receive the "F" grade and the corresponding grade-point average. An "F" earned under the pass-fail option may be repeated only under the graded option to provide the quality points to correspond to the "hours attempted" incurred with the "F."

The summer sessions, collectively or in any combination, shall be considered a unit similar to a spring or fall semester for pass-fail purposes. Hence, a student is permitted to take only one course during the summer on a pass-fail basis.

**Exceptions:** Currently, there are two courses which are exceptions to the Pass-Fail Course Policy. <u>EDUC389</u> and <u>NMDT434</u> are only offered on a pass-fail basis.

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## **Academic Policies**

## I (Incomplete) Policy

The designation of I is used to record work which, so far as covered, is of passing grade but is incomplete because of personal illness or other unavoidable reasons. Changes of grade to convert designations of I must be received in the Office of the Registrar no later than the last day of regular classes preceding the final exam period in the next regular (fall/spring) semester after the I designation was assigned. The dean of the college in which the course is offered may approve an extension, provided the faculty member concurs. A faculty member assigning an I designation must complete a form indicating the work to be completed, deadlines for completion (it is not necessary to allow the maximum allowable time), and guidelines to establish the final grade. Copies of the completed form will be sent to the department chairperson, to the dean of the college in which the course is taught, and to the student receiving the I designation. To monitor I designations, the registrar shall submit to each faculty member routine semester reports of outstanding I designations.

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## **Academic Policies**

## L (Late Grade, Continuing Course) Policy

The designation of L (Late grade, continuing course) is appropriate for cases in which student work is expected to extend beyond a given semester/session. The designation of L is not to be confused with a designation of I, which is only appropriate for individual students unable to complete their course work because of unexpected illness or personal emergency. L designations are appropriate for:

- a. Internships, practicums, field experience courses, workshops, and independent studies that, by design, extend beyond the normal end of the grading period.
- b. Others as approved by the department chairperson and the dean of the college in which the course is taught. If a specific course is always eligible for L designations, the dean may grant standing approval for L designations every time the course is offered.

Faculty wanting to use the L option for eligible courses must notify the registrar before grade sheets are printed (normally two weeks prior to the end of classes) so that the grades can be pre-entered. L designations which are not precoded may be given only with the permission of the department chairperson and the dean of the college in which the designation is awarded.

Instructors will convert L designations to letter grades at the end of the course. Unless an extension is obtained from the dean of the college in which the course was taught, an L designation unresolved at the end of one year will be converted to an F.

To monitor L designations, the registrar shall submit to each faculty member routine semester reports of all outstanding L designations awarded by that faculty member. The purpose of these reports is to help inform faculty as they help students complete their coursework.

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# **Academic Policies**

## **Grade Change Policy**

Once earned grades have been recorded, they may be changed only in the case of clerical and/or calculation error or in the event of a successful grade appeal. It is not appropriate to change a grade based upon options, such as supplemental assignments, that are not equally available to all students. The deadline for corrections of clerical and/or calculation errors is the end of the next regular (fall/spring) semester after the grade has been awarded.

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## **Academic Policies**

## **Course Repeat Policy**

A student may not normally repeat an academic course. Exceptions to this policy are:

1. Repeatable courses: Certain courses are eligible for repeat for credit and grade. These courses are advanced art studio courses, music ensembles, special topics courses (281, 481) if the topic is different, and other specifically designated courses.

#### 2. D and F grades:

- a. Repeat with replacement: Undergraduate students are permitted to replace the grades and quality points for courses in which they receive a D or F grade by repeating that course at IUP and filing a repeat form with the Registrar's Office. Only six repeat-with-replacement attempts are permitted during a student's entire undergraduate career. In calculating GPA, the new grade and quality points earned will replace the old. However, the transcript continues to document all academic work, and repeated courses are not deleted from the visual record.
- b. Repeat with averaging: In addition to the six repeat-with-replacement options, undergraduate students my repeat other courses in which they receive a D or F grade. In these other repeat attempts, the new grade is averaged with, instead of replacing, the prior D or F grade; the credit for the D repeat counts only once. The transcript continues to indicate all repeated courses.
- c. Course transfers: Students seeking to replace or average D and F grades must repeat these courses at IUP. If an IUP course in which a student received an F is repeated at another institution, the credit will transfer to IUP, but the original F will continue to count toward the IUP GPA. If an IUP course in which a student received a D is repeated at another university, neither the grade nor the credit will transfer.
- **3. Other grades:** Courses in which students earned a grade of A, B, C, or P may be repeated only on an audit basis. New grades will not be assigned and additional credit will not be awarded.

This policy also applies to transfer credit. Students receiving transfer credit for an IUP course may not repeat that course at IUP. Similarly, students who have already earned a passing grade in an IUP course may not subsequently receive transfer credit for that same course.

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## **Academic Policies**

## **Cancelled Semester Policy**

The Cancelled Semester Policy permits students returning after significant separation from the university to delete from the Cumulative Grade-Point Average (CGPA) calculation the results of one particularly unfortunate semester. A student who has not been enrolled in four consecutive semesters and the intervening summer sessions may apply upon application for readmission or within one year of readmission for the application of this policy to any single semester completed before readmission. While readmission may be based on the application for cancelled semester, the transcript record will reflect this only after the student is enrolled and attending. (For cancellation purposes, a semester is defined as any semester of enrollment, whether full or part time, with sessions in a single summer together constituting one semester.) All grades—passing, failing, withdrawals—in that semester must be cancelled from the CGPA. There is no abridgment of the transcript; the courses and grades remain visible on the official transcript. Credit toward graduation remains for those credits associated with passing grades. A student may never cancel more than one semester from his/her CGPA under this policy.

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## **Academic Policies**

## Fresh Start Policy

A student who has been academically dismissed and separated from the university for a minimum of five consecutive calendar years may apply for readmission. Having reviewed the prior and intervening factors for evidence of potential for improved academic success, the college dean or designee may readmit the student. This policy applies to a student's first baccalaureate degree, and a student may be readmitted under this policy only once. A minimum of 30 semester hours must be completed at IUP after a student returns to IUP under this policy.

A student who wishes to enter a major in a college other than the one from which he/she was dismissed will apply to the original college, which will forward the application and related records to the new college for action.

Conditions for a Fresh Start Record: All semester hours and grades for IUP coursework taken prior to readmission under this policy shall remain on the transcript. Upon readmission, a new cumulative (GPA) is established based upon semester hours and grades earned from the date of readmission.

**Prior Record:** Previously accepted transfer credits and IUP courses in which grades of C or better were earned prior to readmission will be reviewed in terms of appropriateness (applicability, timeliness) to the new degree. Those courses approved by the college dean or designee will be counted as semester hours earned and applied toward graduation in the manner of transfer credits.

**Academic Standards:** A student who is readmitted under the provisions of this policy shall be required to meet current degree requirements. He/she shall be academically reviewed under the policies published in the academic catalog at the time of rematriculation. A student readmitted under this policy waives the right to exercise the cancelled semester policy.

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## **Academic Policies**

# Individual Course Withdrawal Policy (effective on June 1, 1995)

An undergraduate student is permitted five individual course withdrawals at IUP. Exceptions for unusual circumstances, if any, will be by letter of petition to the dean of the student's college, with appropriate documentation of the circumstances.

Individual course withdrawals may be processed only during the first two-thirds of the term. Instructors are required to inform students of their standing in class prior to this time. A student wishing to withdraw from a course after the deadline may request a waiver through the office of the dean of his/her college. Approval is contingent upon documentation of exceptional events of a catastrophic nature that could not have been anticipated.

At the time of implementation, each continuing student will have five additional individual course withdrawal options, without regard to the number of his/her previous course withdrawals.

Students may begin using the computer system to withdraw from a course after the official drop/add period has closed. At the two-third point for each semester, students may no longer individually withdraw from individual classes.

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## **Academic Policies**

## **Total University Withdrawal Policy**

An undergraduate student who does not register for the succeeding semester or, having registered, does not appear for classes at the beginning of the succeeding semester, is considered to have withdrawn from the university. Thereafter, he/she must apply for readmission as prescribed under the "Admissions and Registration" section of this catalog.

Any undergraduate student voluntarily withdrawing from the university during a semester or a summer session must secure a Total University Withdrawal Form from the Advising and Testing Center, 106 Pratt Hall, 724-357-4067. The student will clear the form with the appropriate offices listed on the form, securing their signatures as evidence of clearance. (Students seeking medical withdrawal must also provide the Advising and Testing Center with a physician's corroboration of a medical need to withdraw.) The signed form will then be returned to the Advising and Testing Center, which will notify the appropriate college dean, campus agencies, and instructors that an official withdrawal has been processed. No person shall be considered withdrawn from the university within a semester or session unless such notice is received. Designations of Q will be assigned to all registered courses in the semester/session from which the student is withdrawing.

Any undergraduate student involuntarily withdrawing from the university as a result of suspension or expulsion will have the designation of Q assigned to each registered course as a result of such judicial action.

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# **Academic Policies**

## **Academic Standards Policy**

(Policy is pending Council of Trustees approval)

- A. Purpose
- B. Definitions
- C. Administrative Review and Enforcement of Standards
- D. Academic Recovery Plan
- E. Dismissal and Readmission
- F. Special Populations

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# **Academic Policies**

## **Purpose**

The university establishes minimum standards for cumulative grade point average (CGPA) to encourage academic accomplishment and timely progress toward graduation.

This policy applies to all undergraduate students. Designated sub-populations are subject to modifications listed in Section F.

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## **Academic Policies**

#### **Definitions**

- 1. Academic Good Standing: Students maintaining a CGPA of at least 2.00 are in Academic Good Standing.
- 2. *Probation:* Students whose CGPA falls below the 2.00 standard are on probation during the next Fall or Spring semester for which they are registered.
- 3. *Extended Probation:* Students who have been authorized to continue, even though they have not achieved a 2.00 CGPA after one semester of probation, are on extended probation.
- 4. Academic Recovery Plan: Students whose CGPA falls below the 2.00 standard must develop an Academic Recovery Plan for achieving academic good standing.

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## **Academic Policies**

#### **Administrative Review and Enforcement of Standards**

- 1. Each college, branch campus, and the Learning Center will designate an Academic Standards Officer who will be responsible for academic review and enforcement of standards.
- 2. An academic review is conducted at the end of each Fall and Spring semester.
  - a. Students earning a 0.00 CGPA at the end of their first semester of full-time enrollment will be dismissed from the university.
  - b. Other students falling below the 2.00 CGPA standard will be continued on probation for one semester and be required to develop and implement an Academic Recovery Plan.
  - c. Students still below the 2.00 CGPA standard after a semester of probation are subject to dismissal. The Academic Standards Officer may grant one semester of extended probation to those who (1) made progress toward academic good standing while on probation or followed their approved Academic Recovery Plan, and (2) have a reasonable mathematical chance of reaching a 2.0 CGPA after one additional semester. Other probation students will be dismissed.
  - d. Students still below the 2.00 CGPA standard after a semester of extended probation will be dismissed.
  - e. Students who regain academic good standing but again fall below the 2.00 standard in a subsequent semester are awarded another semester of probation and, where appropriate, extended probation.

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# **Academic Policies**

## **Academic Recovery Plan:**

Students not meeting the 2.00 CGPA standard must design and implement a comprehensive plan leading to academic good standing. The plan must be developed with and approved by the appropriate Academic Standards Officer.

- 1. **Analysis:** Students must identify the factors causing their unsatisfactory achievement.
- 2. **Planning:** Plans must include a schedule of minimum grades needed to achieve academic good standing.
- 3. **Commitment:** Students must commit to the changes in behavior necessary to achieve academic success. This might include changes in time management, career exploration and the use of such support services as academic advisors, tutoring, the Writing Center, the Counseling Center, the Learning Center, workshops on study skills and related activities, and any other opportunities deemed important by the Academic Standards Officer.
- 4. **Documentation:** Each plan must include a satisfactory method of documentation. Records of attendance at classes and support services, journaling of activities supporting academic success, and conferences are potential vehicles to be considered.

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## **Academic Policies**

#### **Dismissal and Readmission**

- 1. Students dismissed under this policy may not be readmitted for at least one calendar year.
- 2. Dismissed students are not eligible for enrollment in any session (including summer sessions) for at least one calendar year. After one calendar year dismissed students may enroll in summer courses, but they are cautioned against enrolling without consulting their Academic Standards Officer.
- 3. Dismissed students may, after one calendar year, apply for readmission through the Office of the Registrar.
  - a. Those students who, in the opinion of the appropriate Academic Standards Officer, are likely to achieve academic success may be readmitted.
  - b. Decisions for readmission are the responsibility of the Academic Standards Officer of the college the student wishes to enter. If the student seeks admission to a new college, the Academic Standards Officer of the admitting college must consult with the Academic Standards Officer of the college which dismissed the student. Dismissed students seeking admission to a new major must include an application for a change of major.
- 4. Students may be readmitted only once under this policy. Subsequent readmission may be available under the Cancelled Semester Policy after two or more years of separation or the Fresh Start Policy after five or more years of separation.

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# **Academic Policies**

# **Special Populations**

- 1. Learning Center/Act 101 Program
  Students admitted through the Learning Center remain under the direction of the Learning Center until reaching the 2.00 CGPA standard. Students dismissed after earning a 0.00 CGPA in their initial Learning Center/Act 101 summer program may apply for readmission only to the next Learning Center/Act 101 summer program.
- 2. *Branch Campuses*Students admitted through a branch campus must remain at that branch until reaching the 2.00 CGPA standard.
- 3. *Part-time Students: Continuing Education and Others*This policy will be applied on a pro-rata basis for part-time students. Students are considered to be part-time if, at the close of the drop-add period of the given semester, they are enrolled in fewer than 12 semester hours of classes.

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## **Academic Policies**

## **IUP Student Grade Appeal Policy**

#### **Grade Review Policy**

If a student disagrees with the evaluation of his/her work by the instructor but has no basis for a charge of "discrimination" or "capricious evaluation" or "error," the student should discuss the matter directly with the instructor, and if unsatisfied, with the department chairperson, and if still unsatisfied, with the dean of the college in which the course was offered. In such cases, the decision of the instructor shall be final. If a student believes that an improper grade has been assigned, an appeal may be filed on the following grounds:

- 1. **Discrimination:** On the basis of race, religion, national origin, sex, age, ancestry, handicapped status, affectional or lifestyle preference, or political affiliation.
- 2. **Capricious Evaluation:** Significant and unwarranted deviation from grading procedures and course outlines set at the beginning of the course (ordinarily in a written statement during the first week of the course) or grade assigned arbitrarily on the basis of whim or impulse. The student may not claim capriciousness if he or she disagrees with the subjective professional evaluation of the instructor.
- 3. **Error:** Demonstrable, objective determination that a mathematical or clerical error resulted in the entry of an incorrect grade.

#### Procedures of Appeal Level I: Informal Resolution

Every effort should be made to resolve the disagreement at Level I. The student must first seek a resolution to the disagreement with the instructor either in person or in writing. If the student is not satisfied with the results, the student must then speak with the chairperson of the department that offers the course. If still unsatisfied, the student must discuss the matter with the dean of the college in which the course is offered. A Student Congress member may accompany and advise the student during the Level I procedures. Only after all attempts for resolution at Level I have been exhausted may the student initiate Level II.

#### **Level II: Appeal Screening**

- **A. Composition:** Each year there shall be appointed a Grade Appeals Committee to determine the existence of the substantive basis for appeal. The committee will be composed of seven voting members: three faculty members appointed by APSCUF, three members elected by and from the Senate Academic Committee (one faculty, one administrator, one student), and one student appointed by the Student Congress. A quorum consists of a majority of the committee. To take action, a majority of those present must be faculty members. If a quorum of the Level II committee is not available to meet within the designated time limits, the Provost's Office will seek additional members from the appointing bodies. If these bodies are unable to respond in a timely manner, the Provost's Office may select additional members from the appropriate groups.
- **B. Procedure to Initiate Appeal:** To initiate Level II of the appeal, the student must file an appeal form with the Provost's Office. This form must be filed within sixty (60) calendar days of the beginning of the semester immediately following the semester in which the grade was received. The Provost's Office may

extend the sixty-day limit only in unusual circumstances when equity demands it and when the student's own procrastination or misunderstanding did not substantially contribute to the delay. (Note: Grade appeals will not generally be processed during the summer. Therefore, the appeal of any grade received in the spring or summer sessions normally will be processed in the fall. A review will be scheduled in the summer only when the student's academic eligibility is jeopardized by the grade in question or when the student is a graduating senior.) The Provost's Office will notify the appropriate dean, department chairperson, faculty member, and the Student Congress president of the student's initiation of the Level II process.

**C. Procedure to Process Appeal:** The student will be expected to submit written documentation of his/her complaint, and the faculty member will be expected to submit in writing the course grading procedure and any other pertinent information. Appeals based on discrimination will be reviewed according to current standards of nondiscriminatory action. Appeals based on capriciousness will be reviewed in light of the faculty member's announced evaluation and grading system. The committee will review the materials to deny or confirm appeal continuance. Denial of appeal continuance must be by a negative vote of four members of the committee. This committee will inform the Provost's Office of its findings. Within five (5) class days of the receipt of the committee's report, the provost or designee will notify the student and the faculty member of the findings. If the basis for appeal is determined to be substantive, the provost or designee will schedule a Grade Review Panel within fifteen (15) class days to be convened prior to the conclusion of the semester.

#### **Level III: Appeal Review**

- **A. Composition:** The Grade Review Panel will consist of five voting members: one academic dean or associate dean and four faculty members. The Student Congress Executive Committee designee may advise as requested by the student. The affirmative action officer will advise in appeals based on discrimination. The panel will be constituted from the Grade Review Pool by random selection. The panel chairperson will be elected by and from the panel before each review.
- **B. Membership:** The Grade Review Pool will be established in the spring term to serve for the following academic year. Using random selection methods, the pool and rotational order within the pool will be established by the Provost's Office. A pool of three deans or associate deans and twelve full-time faculty members will be maintained. In establishing the membership for each review panel, prior to each review the names of those designated as primary members of the specific panel and available as alternates will be supplied to all parties involved. A panel member may request (to the provost or designee) disqualification due to a conflict of interest. The student and the faculty member may eliminate names in proportion to the composition of the panel. Each may eliminate only one dean/associate dean and four faculty. The instructor and the student will be supplied a list of all primary and secondary pool members. The opportunity to disqualify panel members will take place only once. Resulting vacancies will be filled from the appropriate pool of alternates so that the panel will be composed of one dean/associate dean and four faculty. If through self-disqualification and challenges a panel cannot be constituted from the pool, then the Office of the Provost will supplement the pool using appropriate random selection methods.

#### C. Procedure:

- 1. Both the student and the instructor will have the right to appear before the panel, present witnesses, and offer evidence. In addition to those specified in Level III, Section A, each may also bring one observer, with whom he or she may consult but who may not participate in the review.
- 2. The panel shall determine its rules of order for internal operation. After hearing the evidence brought forth, the panel will privately deliberate and render a decision. If the grade appeal is upheld, the panel will constitute a committee of three appropriate faculty members (knowledgeable in the discipline but excluding the faculty member against whom the complaint was lodged), who will review the student's work and recommend the appropriate grade or suitable remedy. The panel will incorporate this information in its determination, which it then forwards to the Provost's Office for implementation, ordinarily within thirty days. The Provost's Office will

- initiate the processing of grade changes resulting from Level III decisions.
- 3. The written report sent to the Provost's Office will state whether the student's appeal is upheld or denied; if upheld, the committee's evaluation and remedy will be included. Both the student and the faculty member have the right to review all documents related to the appeal. All documents supporting the report will be sealed and kept only as long as necessary (normally one year) to ensure the appropriate action is taken before they are destroyed or returned to the individual presenting the evidence.

#### **Ancillary Provisions**

- A. **Continuing Rights:** This appeal does not supplant any legal rights afforded by the Commonwealth of Pennsylvania and/or the Government of the United States. Nothing in this policy abrogates or modifies any provisions of or rights under the Collective Bargaining Agreement.
- B. **Discrimination in this policy generally means unlawful discrimination:** To the extent that any form of discrimination identified in this definition is not unlawful discrimination, this definition shall not be taken to create a cause of appeal against the university. In such cases, the final appeal procedures stated in this policy will be final and binding on the student.
- C. **Tenure and Promotion Committee Membership on Grade Appeals Committees:** Members of the universitywide tenure and promotion committees may not serve concurrently on grade appeals committees.
- D. **Support Mechanism:** The Provost's Office, after consultation with the Senate Academic Committee and APSCUF, will be responsible for identifying a pool of at least ten faculty members well versed in the preparation of grade appeals who will be available upon request to help students or faculty prepare documentation for the grade appeals process.
- E. **Training/Support:** The Provost's Office will offer yearly information sessions/workshops to assist deans, chairs, grade appeals panel/committee members, and members of Student Congress/Academic Affairs Committee in identifying issues and to provide guidance for the resolution of grade appeals.
- F. **Dissemination of Grade Appeal Information:** The Provost's Office will annually report to the university community a statistical summary of grade appeal data that does not compromise confidentiality including 1) the number of appeals filed, 2) the resolutions at levels II and III, and 3) the final implementation of Level III decisions.
- G. **Appeals on Procedural Grounds:** Decisions may not be challenged merely because the Provost's Office fails to comply with Ancillary Provisions D, E, or F above.
- H. **Intentional Misrepresentation:** Intentional misrepresentation in the filing of grade appeals by students will be referred to the university judicial system for students. Intentional misrepresentation by faculty in the grade appeals process will be referred to the Provost's Office.
- I. **Confidentiality:** Students, faculty, administrators, and staff involved in processing and hearing grade appeals must respect the confidentiality of all aspects of these proceedings. Those breaching confidentiality subject themselves to possible disciplinary action. This shall not abridge the First Amendment rights of the student appealant nor the instructor against whom the appeal has been filed.
- J. **Intended Purpose:** The grade appeal procedures are designed simply as a means to resolve differences between students and faculty related to grading. Unless there is intentional misrepresentation, the results of a grade appeal may not be used for disciplinary action of personnel.
- K. **Faculty Compensation:** If a Review Panel (hearing) is scheduled at a time in the summer when any faculty member involved is not under contract, the faculty member will be compensated under terms mutually agreed upon at Meet-and-Discuss.
- L. **Review of Policy:** Every five years the Senate Academic Committee will review, in consultation with the campus community, the operation of the Grade Appeals Policy and recommend changes deemed appropriate.
- M. \* Amendment: Amendments may be implemented upon concurrence by University Senate, APSCUF Representative Council, and Meet-and-Discuss.

\*Note: In the amendment process above, specification of University Senate implies the Council of Trustees' role in approving Senate actions and recognizes the Council of Trustees' final action to change policy.

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# **Academic Policies**

# **Academic Integrity Policy**

#### A. Introduction

IUP is an academic community within the society at large. All members within this community are expected to accept the responsibility for academic integrity and honesty. Academic dishonesty seriously erodes the quality of educational pursuits and is unacceptable at IUP. The following policies and procedures have been established to preserve the academic integrity of the university community, while also providing a process that protects the rights of students who allegedly violate these policies.

# **B.** Types of Violations

Violations of academic integrity include, but are not limited to, the following:

- 1. Providing or receiving unauthorized assistance in coursework, with lab work, theses, dissertations, or during examinations (including qualifying and comprehensive exams) or quizzes.
- 2. Using unauthorized materials or devices, such as crib notes, during examinations or quizzes.
- 3. Plagiarizing papers, theses, dissertations, essays, reports, speeches and oral presentations, take-home examinations, computer projects, or other academic exercises by misrepresenting or passing off the ideas, words, formulas, or data of another as one's own. Plagiarism is dishonest and illegal. Writers are indebted to authors from whom they borrow exact words, ideas, theories, opinions, statistics, illustrative material, or facts (beyond common knowledge). Writers are also indebted *if they summarize or paraphrase in their own words* material from sources. All quoted material requires the acknowledgement of the source by the use of quotation marks or indentation (if exact wording is incorporated). In addition, both directly quoted and summarized material must be acknowledged by use of a note or parenthetical citation that indicates the author and/or date of publication and page number or numbers. If the writer indents a quotation, it must be clearly set off from the body of the text and must be documented in the aforesaid manner. To verify the various documentation procedures, writers should consult the style sheet in the particular discipline for which they are preparing the assignment (MLA, APA, Chicago, BC, etc.).
- 4. Using the same paper or work more than once without authorization of the faculty member(s) to whom the work is being submitted.
- 5. Possessing course examination materials before the administration of the exam, without the prior knowledge or consent of the instructor.
- 6. Intentionally evading IUP academic policies and procedures; for example, improperly processing course withdrawals, grade changes, or other academic procedures.
- 7. Falsifying information, including falsification/fabrication of research data and/or statistical analyses, forging signatures on various forms and documents, or altering or adding answers on academic exercises or exams after work has been graded.
- 8. Computer dishonesty, including: tampering with or making unauthorized change to another person's or the

university's computer system, illegally copying computer software, personal use of another individual's computer account, unauthorized activity involving another individual's personal computer system or any system belonging to the university, and other unauthorized use or violations involving computer use.

9. Noncompliance: failure to follow through with sanction(s) imposed as a result of an academic violation.

The university reserves the right to discipline any student for any action that an ordinary, reasonable, intelligent college student knows or should know might lead to the issuance of discipline. This means the university maintains the right to issue discipline for reasonable cause.

Charges of academic integrity violations may be brought by faculty members or administrators. Students who observe or become aware of a violation of academic integrity by another student are strongly encouraged to report it to a university official. A faculty member/administrator who believes that a student has violated an academic policy may elect to resolve the matter by Informal Resolution, by Documented Agreement, or by Formal Adjudication. Sanction(s) may not be imposed upon a student believed to have violated an academic policy without following one of these three procedures.

If charges are brought, the accused student(s) shall have a fair and reasonable opportunity to answer, explain, and defend against the charges. The university shall have the burden of proof in all cases. Hearsay should not be used as the sole evidence to establish any fact necessary to establish guilt or innocence.

#### C. Procedures

- A. Faculty/administrators must use one of the following options to resolve alleged violations of academic integrity.
  - 1. **Option I: Informal Resolution.** The faculty member/administrator and student may meet informally, normally within seven class days of the observation or discovery of the incident, and agree to resolve the issue without submitting any formal documentation. If the violation pertains to work being judged by a committee (examples might include dissertations and comprehensive examinations, both oral and written), the meeting must involve a majority of the committee and the resolution must be agreed to by a majority of the committee. It is in the interest of both the faculty member/administrator and student to complete a statement that summarizes the incident, conference, and agreed-upon resolution. This factual statement should be signed by both parties and copies provided to the student and the faculty member/administrator. If agreement cannot be reached, or at the discretion of the faculty member/administrator, a more formal process as outlined in this policy may be initiated.

#### 2. Option II: Resolution by Documented Agreement

- a. The faculty member/administrator may schedule a conference with the student in an attempt to agree on the facts of the case and to reach a mutually agreeable resolution. This meeting must normally be scheduled/requested within seven class days of the observation or discovery of the alleged violation or of the failure of resolution by Option I. If an agreement is reached, the faculty member/administrator must complete a Documented Agreement Form outlining the agreement and have it signed by both parties: faculty member/administrator and student. If the violation pertains to work such as a thesis or comprehensive examination being judged by a committee, the meeting must involve a majority of the committee and the Documented Agreement Form must be agreed to and signed by a majority of the committee. Copies are distributed to the student, the faculty member(s)/administrator filing the agreement, and the department chair, who must also electronically record the information for subsequent entry into the computer database. The form must normally be filed within seven class days of the conference.
- b. If an agreement is reached and the form is filed, the matter is closed unless the student has a prior academic violation(s) on record. By signing off on the agreement, the student waives the right to appeal the sanctions agreed upon in the conference. If the student fails to fulfill the written agreement, the faculty member/administrator may file an academic integrity referral against the student for noncompliance.

- c. If a prior academic integrity violation(s) for the student is on record, the matter will be referred to an Academic Integrity Board (AIB). The AIB will review the case to determine if more severe sanctions are warranted (see Section D, Multiple Violations).
- d. If a documented agreement is not reached, the faculty member/administrator should initiate the formal adjudication process by filing an academic integrity referral form with the department chair, normally within seven class days of the conference with the student.
- 3. **Option III: Resolution by Formal Adjudication**. A faculty member/administrator should pursue formal adjudication if:
  - he/she cannot reach or chooses not to attempt a mutually agreeable resolution with the student regarding the facts of the case or sanctions to be imposed,
  - he/she believes that the violation is so severe that it warrants a sanction of expulsion, suspension, involuntary withdrawal from part of IUP's academic or other programs, or awarding a failing grade on a project or examination (such as a graduate qualifying or comprehensive examination or dissertation) when resubmitting the project or retaking the examination is not possible.
    - a. The faculty member/administrator should file an academic integrity referral form with the department chair, normally within seven class days of the observation or discovery of the violation or within seven class days of the failure to reach a resolution through Option I or Option II. If the violation pertains to work being judged by a committee, the form must be signed by a majority of the committee. The form will contain a description of the alleged violation, including the time, date, and place of occurrence, and the recommended sanction(s) if the student is found to have violated this policy.
    - b. The department chair will forward a copy of the academic integrity referral to the student, normally within seven class days of receiving notification of the allegation, and contact the student to schedule a hearing to review the facts surrounding the allegation and recommended sanctions if the student is determined to have committed a violation.
    - c. The hearing should be scheduled so as to allow the student a reasonable time to prepare a defense (normally within seven class days of being notified of the allegation by the department chair).
    - d. This hearing will involve the student, the department chair, and the faculty member/administrator(s); the department chair may invite others with pertinent information. All parties must be given the opportunity to submit written, physical, and testimonial evidence, and for reasonable questioning of witnesses.
    - e. The accused student may identify an advisor, who may be an attorney, to be present at the hearing. The advisor may only consult privately with the student unless otherwise determined by the university regarding a particular case.
    - f. The student may waive his/her right to a hearing in writing. If so, the sanction recommended by the person filing the referral will be imposed. If the student fails to appear when a hearing has been scheduled, the hearing will be held in the student's absence and the department chair will render a decision based upon factual information presented by the faculty member/administrator.
    - g. Following the hearing, the department chair will render a determination based on the information presented at the hearing. Normally within seven class days of the hearing, the department chair will forward a written report summarizing the hearing that includes the outcome, the factual basis for the determinations reached, the sanction(s) to be issued, and appeal procedures. Copies of this report will be sent to the student, the faculty member/administrator, and the provost/designee. The department chair will retain a copy for departmental files and electronically record the information for subsequent entry into the computer database.
    - h. In the event that a department chair cannot or will not fulfill the above role, or in the event that the person filing the referral is an administrator or department chair, the provost or designee will determine the appropriate individual to fulfill the department chair's role and inform the student and the faculty member/administrator filing charges.
    - i. If a prior academic violation(s) for the student is on record, the case must be referred to the Academic Integrity Board which will consider more severe sanctions (see Section D, Multiple

- Academic Integrity Board (AIB). The AIB will hear all cases in which appeals to the chair's decision are accepted by the provost/designee (see Appeals section C.1. and C.2.). The AIB will also review sanctions in cases of multiple violations (see Section D).
  - 1. The AIB will be made up of four faculty members, one of whom will chair the board, and two students. A quorum requires the presence of four persons, at least one of whom must be a student. All members, including the chair, are voting members.
  - 2. When an AIB hearing is called for, the AIB will be convened by the provost/designee (currently the assistant to the vice president for Student Affairs). The accused student shall be notified of the time, date, and place of the hearing and the names of those AIB members scheduled to review his/her case. If the hearing is an appeal, this notification will also include details of the charges, including the time, date, and place of the alleged offense(s) and the recommended sanction(s). If the hearing is a review of sanctions in a multiple violation case (see Section D), the notification should also indicate that more severe sanctions might be imposed. The hearing should be scheduled so as to allow the student reasonable time to prepare a defense.
  - 3. Prior to the hearing a student appearing before an AIB may, with good cause, challenge any member on the board sitting in judgment of his/her particular case. When such a challenge is made, an alternate member will be appointed to the AIB.
  - 4. The AIB will review all material and hear all evidence pertinent to the case from the accused and all witnesses. Members of the AIB shall be free to ask relevant questions to clarify information or resulting issues.
  - 5. The student shall have a fair and reasonable opportunity to answer, explain, and defend against information and witnesses presented at the hearing, to submit written, physical, and testimonial evidence, and to call relevant witnesses on his/her behalf.
  - 6. The accused student may identify an advisor, who may be an attorney, to be present at the hearing. The advisor may only consult privately with the student unless otherwise determined by the university regarding a particular case.
  - 7. After hearing all evidence, the AIB will privately make its decision based reasonably upon the evidence presented. A majority vote of the AIB shall be required for any decision. If the AIB finds the student to have committed the misconduct or infraction, and the student has no prior academic violation(s) on record, it may accept, reduce (but not increase), or modify the recommended sanction. If the student does have a prior academic violation(s) on record, the AIB may increase the recommended sanction (see Section D, Multiple Violations).
  - 8. If the student waives his/her right to a hearing in writing, or chooses not to appear at the AIB hearing, the case will be adjudicated based upon the evidence presented at the scheduled hearing.
  - 9. All hearings are closed unless the student requests an open hearing in writing. The AIB chair has the authority to make the final decision regarding access of spectators at the hearing.
  - 10. The AIB must submit a written report of the decision, normally within seven class days of its decision, to the student, faculty member/administrator, department chair, and provost/designee, who will electronically record the information for subsequent entry into the computer database.

### **D. Sanctions**

#### **Multiple Violations**

- 1. Students with multiple academic violations of record will be subject to additional sanctions, including possible suspension or expulsion from the university.
- 2. Information about prior violations is not relevant to determining whether a student has violated this policy.

- However, such information is pertinent in determining the appropriate sanction.
- 3. If a student found in violation of this policy through either Resolution by Documented Agreement or Resolution by Formal Adjudication has a prior academic integrity violation of record, the case will be referred to an AIB.
- 4. For cases previously resolved by Documented Agreement or through Formal Adjudication at the department chair's level, the AIB will schedule a new hearing. This hearing will review all information pertinent to the determination of an appropriate sanction but will not reconsider the issue of whether the policy violation occurred. After considering the severity of the current and prior violations, the AIB may determine that a more severe sanction is appropriate.
- 5. For cases being heard by an AIB, the AIB should request information on prior violations only after determining that a violation has occurred. Information on prior violations should be used in determining the appropriate sanction.
- 6. The AIB must submit a written report of the decision, normally within seven class days of its decision, to the student, faculty/administrator, department chair, and provost/designee who will electronically record the information for subsequent entry into the computer database.
- 7. The student may appeal any new sanction(s) to the provost/designee. The provost/designee may deny the appeal or, on the basis of denial of a fair and reasonable hearing, new evidence, or excessively harsh sanctions, direct the appeal to be heard by a second AIB. The provost/designee will electronically record the information for subsequent entry into the computer database.

#### **Sanctions**

- 1. The following sanctions may be agreed upon by the student and faculty member/administrator through informal resolution or documented agreement. All grade reductions require the approval of the instructor of record. If the work is graded by a committee, a grade reduction requires the approval of the majority of the committee.
  - a. **Single Grade Reduction:** Reduction of grade or failure on project, examination, quiz, or other academic exercise on which the student is alleged to have cheated.
  - b. **Course Grade Reduction:** Reduction of course grade or failure in the course. If the violation involves a project spanning multiple courses (such as a dissertation or multiple semester internship), the grade reduction may apply to all courses involved.
  - c. **Constructive or Educational Task:** A task which requires the student to examine his/her dishonest behavior and which may benefit the student, campus, or community.
  - d. **Other:** Sanctions deemed appropriate and tailored to a specific violation as determined by the faculty member/administrator. Any reasonable sanction or combination of sanctions for a given violation may be agreed upon by the student and faculty member/administrator.
- 2. In addition to the above, the following sanctions might be imposed through formal adjudication.
  - a. **Letter of Warning:** A warning letter may be issued indicating that the student has been found in violation of an academic policy and that failure to comply with policies in the future may result in further disciplinary action to be handled as a second offense. The letter of warning will remain in effect for a period of time as specified by the individual or board hearing the case.
  - b. **Disciplinary Probation:** Disciplinary probation, which is for a period of time specified by the individual or board hearing the case, is an indication that a student's status at the university is seriously jeopardized. If the student is found in violation of another IUP policy during the probationary period, a more serious sanction will be levied, including possible involuntary withdrawal from part of IUP's academic or other programs, suspension or expulsion from the university.
  - c. **Involuntary withdrawal from part of IUP's academic or other programs:** A student may be denied the right to participate in some segment of IUP's programs. Such involuntary withdrawal might be imposed on either a temporary or permanent basis.
  - d. **Suspension:** A student may be suspended from the university for a specified period of time, not to be less than the remainder of the current semester. Suspension requires that a student remove him/herself from university premises, not attend classes or social activities, and not be present on university or Student Cooperative Association property during the period of suspension.
  - e. **Expulsion:** Expulsion may be considered under any of the following circumstances: when there is a very serious violation of the academic integrity policy, when a student is proven to have violated the academic integrity policy on more than one occasion, or when a student appears before the board after already

having been suspended. Expulsion from the institution is permanent. Appeals to the sanction of expulsion must be submitted to the Office of the President. If necessary, the president will consult with legal counsel in these cases.

Suspension and expulsion can be recommended by a faculty member/administrator, department chair, and AIB but can be imposed only by the president's designee for suspension and expulsion (currently the vice president for Student Affairs), who is responsible for verifying that due process was followed.

# E. Appeals

**Appeals:** These appeal procedures apply to cases resolved through formal adjudication. Cases of academic integrity that are resolved through informal resolution or documented agreement cannot be appealed, as the facts of the case, the decision, and sanction(s) have been agreed to by the student and the individual making the charge.

- 1. If, after receiving the department chair's report on the outcome of the hearing, the faculty/administrator or the student disagrees with either the decision, the sanction, or both, he/she may appeal to the provost/designee, normally within seven class days of receiving the report. This appeal must be in writing and must describe in detail the grounds for the appeal. These reasons may include the following:
  - a. Denial of a fair and reasonable hearing
  - b. New evidence (applies when there is an acceptable reason why the information was not presented at the original hearing)
  - c. Excessively harsh sanctions. Students cannot appeal on the basis of excessively harsh sanctions if the sanctions are specified on the course syllabus, have the prior approval of the department, and apply only to the specific course in which the alleged violation occurred.
- 2. The provost/designee may deny the appeal or direct the appeal to be heard by an AIB within seven class days. All appeals involving sanctions of involuntary withdrawal from part of IUP's academic or other programs, suspension, or expulsion will be heard by an AIB.
- 3. Unless the recommended sanction is suspension or expulsion, the decision of the AIB is final and will be implemented by the provost/designee, who will electronically record the information for subsequent entry into the computer database.
- 4. Suspension or expulsion may be recommended by the AIB but can only be implemented by the vice president for Student Affairs (the president's designee for suspension and expulsion), who is responsible for verifying that due process was followed.

# F. Records and Recordkeeping

#### **Records and Recordkeeping**

- 1. **Records of Informal Resolution.** Although no official forms are filed at this level of resolution, it is strongly recommended that a faculty member/administrator and student who reach an informal agreement put the agreement in writing with a copy to each participant. This protects each party in the event of any future attempt at renegotiation.
- 2. **Records of Resolution by Documented Agreement.** Documented agreement resolutions are recorded on the computer database of disciplinary files maintained by the assistant to the vice president for Student Affairs. They are not considered formal disciplinary records until and unless the student is found in violation of this policy a second time. They are internal university records used for monitoring students for multiple violations only. If a second documented agreement form is filed or a student is found in violation of the policy through formal

- adjudication, the student will then have a formal disciplinary record which includes records of both violations. This formal record is maintained according to the IUP judicial system recordkeeping policies.
- 3. **Records of Formal Adjudication.** Records of academic integrity cases resolved through formal adjudication are recorded on the computer database of disciplinary files maintained by the Office of the Assistant to the Vice President of Student Affairs. They are maintained as formal disciplinary records in accordance with IUP judicial system recordkeeping policies. Records of cases involving suspension or expulsion must be maintained for a minimum of two years.

# **G.** Operational Notes

- 1. In cases where a violation is alleged at or near the end of the semester and resolution by informal resolution, documented agreement, or formal adjudication cannot be completed before grades are submitted, the faculty member should submit a designation of "Incomplete" (I) for the student. The "I" designation will remain on the student's record until the case has been resolved. Once the case has been resolved, the "I" designation will be replaced with the appropriate grade.
- 2. If the violation is alleged during the semester when classes are in session, the accused student should continue attending all classes and continue to complete course requirements during the resolution of the academic integrity case.
- 3. The provost/designee may extend any deadline which cannot be met for what he/she deems legitimate reason.
- 4. Requests to constitute the AIB for hearings will be directed to the provost/designee (currently the assistant to the vice president for Student Affairs).
- 5. The university may withhold transcripts, grades, diplomas, or other official records pending the disposition of cases, if such action is reasonably necessary to preserve its ability to enforce its rules.
- 6. The provost/designee may modify the procedural provisions of these rules by the issuance of written orders to deal with particular unusual procedural situations, so long as no order shall contradict the rules of the Board of Governors of the State System of Higher Education governing due process for students, and no such rule shall deny fundamental fairness to students by, for example, effectively constituting a denial of notice or opportunity to be heard.
- 7. This policy will be reviewed by the Senate Academic Committee after five years.

The various forms described in this policy are available from the assistant to the vice president for Student Affairs, 215A Sutton Hall, deans' offices, or department chairs. Questions concerning the Academic Integrity Policy and Procedures can be directed to the assistant to the vice president for Student Affairs, 215A Sutton Hall.

**Implementation:** The policy is targeted for implementation in June, 1998, pending completion of the computer screens that will support a decentralized system focused in the departments.

Approved by Council of Trustees -- May 15, 1998

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# **Academic Policies**

# **Final Examination Policy**

The final examination week is part of the regular academic program and must be incorporated into each instructor's course plan for the semester. Final examinations are not the only legitimate type of terminating activity, and therefore, the instructor may choose an appropriate activity that conforms to course objectives.

The terminating activity shall take place *only* at the time and location assigned by the Scheduling Center. Unless granted an excused absence, the faculty member responsible for the course must be present for the full examination period to direct the terminating activity. Faculty members may require student attendance at the terminating activity.

Faculty members who do not schedule or do not attend the terminating activity for a course may be subject to disciplinary action commensurate with unexcused absences. Block finals must be held as scheduled. Once the final examination has been set by the Scheduling Center, changes and absences must be approved by the instructor's dean.

During the examination period, the following general rules apply where conflicts exist:

- 1. The higher-numbered course takes precedence. Thus, a student enrolled in GEOG 102 and ECON 325 would take the ECON 325 exam at the assigned time and the make-up in GEOG 102.
- 2. If courses in conflict are the same level and number, an *alphabetical determination by full name of the department will be made*. For example, a student enrolled in ACCT 421 and CNSV 421 would take the ACCT 421 exam at the assigned time and a make-up in CNSV 421.

#### Maximum Number of Exams on One Day/Conflicts:

A student may not be required to take more than three final exams on any one regularly scheduled examination day. For any exam over three, a make-up exam must be scheduled by the instructor for the student, at his or her request, into another mutually agreeable regular final examination period. The rules determining conflict resolution (listed above) will determine which exam or exams a student may request as make-ups.

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# **Academic Policies**

# **Night Exam Policy**

All tests, examinations, and quizzes should normally be administered during the prescribed course hours. Only in this way can the essential contracted nature of the time arrangements between student and professor be preserved and, at the same time, proper provisions made for the many extracurricular and personal activities involving students and faculty alike. Deviations to allow night exams for valid educational reasons, within the guidelines listed below, must be approved by the department and the dean.

#### Guidelines

- 1. Night exams can only be scheduled on Monday through Thursday evenings within the 6:00-10:00 p.m. time period.
- 2. Appropriate physical facilities must be arranged in advance without encroachment upon other authorized university functions.
- 3. If night exams are to be given, the day of the week on which they will be given must be listed in the undergraduate course schedule.
- 4. No night exam can take precedence over a regularly scheduled class.
- 5. Arrangements for nonpunitive make-up exams at a mutually agreeable time must be available for students that cannot attend the night exam
- 6. For each hour of night exams, an hour of regularly scheduled class time will be cancelled. Such cancellations are prohibited during any period of two class days immediately preceding and any period of two class days immediately following holiday and/or vacation (recess) periods and semester terminations, appearing in the published academic calendar.

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# **Requirements for Graduation**

Undergraduate students at IUP may pursue programs of study in any one of the seven undergraduate colleges: the Eberly College of Business and Information Technology, the College of Education and Educational Technology, the College of Fine Arts, the College of Health and Human Services, the College of Humanities and Social Sciences, the College of Natural Sciences and Mathematics, or the School of Continuing Education. A student may earn the degree of Bachelor of Arts, Bachelor of Science, Bachelor of Fine Arts, or the Bachelor of Science in Education. The Eberly College of Business and Information Technology and the School of Continuing Education offer Associate of Arts degree programs. To meet graduation requirements in a baccalaureate or an associate degree program, the student must satisfy all of the degree requirements, which fall into three categories:

- 1. university requirements
- 2. college requirements
- 3. department requirements.

Requirements of the latter two categories may be found under the college and the department in which the student is pursuing a program of study.

University requirements for graduation in all curricula consist of Liberal Studies requirements, residency requirements in regard to awarding of degrees, and the semester-hour and cumulative grade-point average requirements.

**Exception:** Students who enrolled in a degree program prior to June 1, 1989, are not subject to Liberal Studies requirements; they will complete degree requirements including the General Education components outlined in earlier editions of the *Undergraduate Catalog*. Transfer students entering the university between June 1, 1989, and June 1, 1991, were assigned either to General Education or Liberal Studies at the time their transcripts were evaluated. All transfer students admitted after June 1, 1991, are subject to the Liberal Studies requirements.

A student may earn a second undergraduate baccalaureate degree by completing a minimum of thirty additional semester hours. (See Second Baccalaureate Degree.) It is not possible to receive two or more baccalaureate degrees simultaneously. However, a student may complete one or more secondary majors while earning the primary degree.

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# **Requirements for Graduation**

# **Academic Life during the Freshman Year**

During the Summer Orientation, as described in the section on orientation, students meet with faculty advisors to plan a program of courses for their first year. This careful planning considers students' individual preferences, the results of placement testing, and degree program requirements.

With a typical freshman academic schedule, students progress both in the universitywide Liberal Studies program and in their intended majors.

Three Liberal Studies courses are designed especially for freshmen, and all students are expected to complete these courses during their first year. The three are <u>ENGL 101</u> College Writing, <u>HIST 195</u> History: The Modern Era, and one course from a list of Fine Arts selections.

College Writing enhances skills in written expression that are essential to success at the university. History: The Modern Era builds critical thinking skills and provides a foundation of knowledge for subsequent courses. Whichever fine arts course is chosen encourages an appreciative participation in campus cultural life.

Professors teaching these courses work cooperatively with each other and with Student Affairs Division staff to integrate class work with campus lectures and arts events. Study skills development and tutoring services are also provided as necessary.

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# **Requirements for Graduation**

# Semester Hour and Cumulative Quality-Point Average Requirement

Each student must complete a minimum of 124 semester hours to graduate, including 53 semester hours in Liberal Studies (all on a passing basis) and must have a 2.0 ("C" grade) cumulative GPA and a 2.0 ("C") GPA in his/her major and/or minor field. Some programs require more than 124 semester hours for graduation.

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# **Requirements for Graduation**

### **Liberal Studies**

All students must fulfill the requirements of the university's Liberal Studies program. This involves a minimum of 53 semester hours divided among Learning Skills, Knowledge Areas, and Synthesis. The number of semester hours may rise slightly depending on student choices. Different colleges and sometimes departments within colleges may have specific variations as to how these Liberal Studies requirements are to be met.

Liberal Studies provides the broad vision and understanding that enable individuals to enjoy full, rich lives and to play constructive roles in their communities. The goals for Liberal Studies include (1) the development of important modes of thinking and intellectual skills: critical thinking, literacy, understanding numerical data, historical consciousness, scientific inquiry, ethical perception, and aesthetic sensitivity; (2) the acquisition of a body of knowledge or understanding essential to an educated person; and (3) an understanding of the physical, as well as the intellectual, nature of human beings.

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# **Requirements for Graduation**

# **Liberal Studies Requirements**

**Note:** Specific courses may be required or recommended by colleges or major departments; see degree program outlines for specifications.

Additional courses may be added to some categories during the next academic year.

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# **Requirements for Graduation**

# English Composition:Two Courses 7sh

Learning Skills:

ENGL 101 College Writing 4
ENGL 202 Research Writing (sophomore standing) 3

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# **Requirements for Graduation**

Mathema	itics: One Course from List	3-4sh
Learning Ski		
<u>MATH 101</u>	Foundations of Mathematics	3
<u>MATH 102</u>	Finite Mathematics [inactive]	3
<u>MATH 105</u>	College Algebra	3
<u>MATH 110</u>	Elementary Functions	3
<u>MATH 121</u>	Calculus I for Business, Natural and Social Sciences	4
MATH 123	Calculus I for Physics, Chemistry, and Mathematics	4
MATH 127	Calculus I	4
MATH 151	Elements of Mathematics I	
	(restricted to designated majors)	3
MATH 152	Elements of Mathematics II	
	(restricted to designated majors)	3
MATH 217	Probability and Statistics	3
BEDU 111	Foundations of Business Mathematics	
	(restricted to designated majors)	3

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# **Requirements for Graduation**

**Humanities: Three Courses\***9sh

\*One course in history, one in literature, and one in philosophy or religious studies.

History: HIST 195	History: The Modern Era	3
Literature: ENGL 121 FNLG 121 ENGL 122	: Humanities: Literature Humanities: Literature (taught in English) Introductory to Literary Analysis (English majo	3 3 rs)3
Philosophy PHIL 101 PHIL 120 PHIL 221 PHIL 222 PHIL 223 RLST 100 RLST 110 RLST 250 RLST 290	or Religious Studies:    Informal Logic: Methods of Critical Thinking Introduction to Philosophy Symbolic Logic I Ethics    Philosophy of Art Introduction to Religion World Relgions    Understanding the Bible Christianity	3 3 3 3 3 3 3 3

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# **Requirements for Graduation**

# Fine Arts: One Course from List 3sh

<u>ARHI 101</u>	Introduction	to	Art	3
<u>MUHI 101</u>	Introduction	to	Music	3
<u>THTR 101</u>	Introduction	to	Theater	3
THTR 102	Introduction	to	Dance	3

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# **Requirements for Graduation**

Natural Science: Option One 8-10sh

Option I:
Two-semester Laboratory Course Sequence

Two courses with laboratories (4sh each), paired together in a sequence, from the natural science laboratory course list.

8sh

```
Natural Science Laboratory Sequences:
BIOL 103/104
CHEM 101/102
                             General Biology I and II
                                                                                         8
                              College Chemistry I and II
                                                                                         8
CHEM 111/112
                             General Chemistry I and II
                                                                                         8
<u>CHEM 113/114</u>
                             Concepts in Chemistry and Basic
                        Inorganic Chemistry
Two of the following three, in any order:
           GEOS 101/102 The Dynamic Earth with lab GEOS 103/104 Oceans and Atmospheres with lab GEOS 105/106 Exploring the Universe with lab
                                                                                         4
\underline{\text{GEOS}\ 111}/\underline{112} and \underline{\text{GEOS}\ 113}/\underline{114} Earth Science for Educators I and II with labs
                                                                                    8
GEOS 121/122 and GEOS 131/132 Physical Geology and
                         Historical Geology with labs
                                                                                   8
PHYS 111/121 and 112/122 Physics I and II with labs PHYS 131/141 and 132/142 Physics I and II with
                                     labs (calculus)
                                                                                    8
                              Physical Science I and II
SCI 105/106
                                                                                   8
                         (either order)
```

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# **Requirements for Graduation**

Natural Science: Option Two 8-10sh

#### **Option II:**

#### One Laboratory plus Two Nonlaboratory Courses 10sh

Natural Science Laboratory Courses:

One course with laboratory (4sh) from the natural science laboratory course list followed by two courses (3sh each) from natural science nonlaboratory course list. One of the nonlaboratory courses may be counted again among the Liberal Studies Electives.

BIOL 103	General Biology I	4
<u>CHEM 101</u>	College Chemistry I	4
<u>CHEM 111</u>	General Chemistry I	4
CHEM 113	Concepts in Chemistry	4
GEOS 101/GEOS 102	The Dynamic Earth with lab	4
GEOS 103/GEOS 104	Oceans and Atmospheres with lab	4
GEOS 105/GEOS 106	Exploring the Universe with lab	4
GEOS 111/GEOS 112	Earth Science for Educators I with lab	4
<u>GEOS 113/GEOS 114</u>	Earth Science for Educators II with lab	4
GEOS 121/GEOS 122	Physical Geology with lab	4
GEOS 131/GEOS 132	Historical Geology with lab	4
PHYS 111/PHYS 121	Physics I with lab	4
	Physics I (calculus) with lab	4
<u>PHYS 151/PHYS 161</u>	Medical Physics with lab	4
<u>SCI 105</u>	Physical Science I	4
<u>SCI 106</u>	Physical Science II	4
	onlaboratory Courses:	_
BIOL 114	Environmental Science	3
BIOL 115	Biotic Diversity of North America	3
BIOL 116	Introduction to Marine Biology	3
<u>GEOS 101</u>	The Dynamic Earth	3
GEOS 103	Oceans and Atmospheres	3
GEOS 105	Exploring the Universe	3
GEOS 111	Earth Science for Educators I	3
GEOS 113	Earth Science for Educators II	3
GEOS 121	Physical Geology	3
GEOS 131	Historical Geology	3
<u>GEOS 141</u>	Introduction to Ocean Science	3
GEOS 150	Geology of National Parks	2
GEOS 151	The Age of Dinosaurs	3
GEOS 151 GEOS 221	The Age of Dinosaurs Physical Resources of the Earth	3
GEOS 151 GEOS 221 PHYS 101	The Age of Dinosaurs Physical Resources of the Earth Energy and the Environment	3 3 3
GEOS 151 GEOS 221 PHYS 101 PHYS 111	The Age of Dinosaurs Physical Resources of the Earth Energy and the Environment Physics I	3 3 3 3
GEOS 151 GEOS 221 PHYS 101 PHYS 111 PHYS 112	The Age of Dinosaurs Physical Resources of the Earth Energy and the Environment Physics I Physics II	3 3 3 3 3
GEOS 151 GEOS 221 PHYS 101 PHYS 111 PHYS 112 PHYS 131	The Age of Dinosaurs Physical Resources of the Earth Energy and the Environment Physics I Physics II Physics I (calculus)	3 3 3 3 3 3 3
GEOS 151 GEOS 221 PHYS 101 PHYS 111 PHYS 112	The Age of Dinosaurs Physical Resources of the Earth Energy and the Environment Physics I Physics II	3 M M M M M M M M M M M M M M M M M M M

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# **Requirements for Graduation**

# **Social Sciences: Three Courses from List\*** 9sh

\*No course prefix may be used more than once

<u>ANTH 110</u>	Contemporary Anthropology (1)	3
<u>ANTH 211</u>	Cultural Anthropology (1)	3
<u>ANTH 213</u>	World Archaeology	3
<u>CRIM 101</u>	Crime and Justice Systems	3
ECON 101	Basic Economics	3
ECON 121	Principles of Economics I	3
<u>GEOG 101</u>	Intro to Geography: Human Environment	3
<u>GEOG 102</u>	Geography of U.S. and Canada	3
<u>GEOG 104</u>	Geography of Non-Western World (1)	3
PSYC 101	General Psychology	3
PLSC 101	World Politics (1)	3
PLSC 111	American Politics	3
SOC 151	Principles of Sociology	3
SOC 231	Contemporary Social Problems	3

<sup>(1)</sup> Also fulfills requirement for non-Western course

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# **Requirements for Graduation**

Health and Wellness: One Course 3sh

HPED 143 Health and Wellness 3
FDNT 143 Nutrition and Wellness 3

An alternate method of fulfilling this requirement is the completion of one year of Military Science/ROTC: MLSC 101 Introduction to Military Science and Lab (2sh) and MLSC 102 Fundamentals of Military Science and Lab (2sh). The courses MLSC 203 and MLSC 204 may be substituted for MLSC 101 and 102. Veterans are given 4sh toward these requirements by validating two years' active duty via form DD214.

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# **Requirements for Graduation**

# **Liberal Studies Electives:** Three Courses from List\*

9sh

See list of nonlaboratory natural sciences for additional courses which may be used as Liberal Studies electives.

See list of Non-Western Cultures courses, some of which may be used as Liberal Studies Electives.

The following	courses are also approved:		
<u>ARHI 205</u>	Ancient to Medieval Art	3	
<u>ARHI 206</u>	Renaissance to Baroque Art	3	
<u>ARHI 211</u>	Modern Art	3	
<u>ARHI 222</u>	Art in America	3	
<u>ANTH 286</u>	Marriage, Kinship, and the Family		
	[same as <u>SOC 286</u> ]	3	
<u>BEDU 101</u>	Microbased Computer Literacy		
	[same as <u>COSC</u> / <u>IFMG 101</u> ]		3
<u>BEDU 201</u>	Internet and Multimedia [same as		
	<pre>COMM/COSC/IFMG/LIBR 201]</pre>	3	
<u>COMM 101</u>	Comm Media in American Society	3	
<u>COMM 201</u>	Internet and Multimedia [same as		
	<pre>BEDU/COSC/IFMG/LIBR 201]</pre>	3	
<u>COMM 380</u>	History of African Americans in Film	3	
<u>COSC 101</u>	Microbased Computer Literacy		
	[same as <u>BEDU</u> / <u>IFMG 101</u> ]		3
COSC 201	Internet and Multimedia [same as		
	BEDU/COMM/IFMG/LIBR 201]	3	
<u>CNSV 101</u>	Personal and Family Management	3	
<u>CNSV 315</u>	Consumer Economics and Family Finance	3	
<u>ECON 122</u>	Principles of Economics II	3	
ENGL 349	English Bible as Literature	3	
<u>FDNT 145</u>	Introduction to Nutrition	3	
FRNC 201	College French I (2)	3	
FRNC 202	College French II (2)	3	
FRNC 203	Accelerated College French	6	
<u>FRNC 301</u>	Portraits of Women in the French Novel	3	
<u>GEOG 230</u>	Cultural Geography	3	
<u>GEOG 231</u>	Economic Geography	3 3 3 3 3 3	
<u>GEOG 251</u>	Geography of Pennsylvania	3	
<u>GEOG 253</u>	Geography of Europe	3	
<u>GRMN 251</u>	German III (2)	3	
<u>GRMN 252</u>	German IV (2)	3	
<u>HMEC 218</u>	Child Development	3	
<u>HMEC 224</u>	Marriage and Family Relations	3	
<u>HIST 210</u>	Ancient Civilizations: The Middle		
	East and the Eastern Mediterranean	3	
<u>HIST 212</u>	Ancient and Medieval Europe	3	
<u>HIST 214</u>	Themes in American History	3	
<u>HIST 305</u>	Renaissance and Reformation	3	
<u>HIST 355</u>	African History I: Antiquity to 1600	3	

<sup>\*</sup>At least one course must be numbered 200 or higher

<sup>\*</sup>No course carrying the student's major prefix may be used

<sup>\*</sup>No course prefix may be used more than once, except for intermediate-level foreign language prefixes (FRNC, GRMN, ITAL, SPAN, LATN, and GREK), which may be used twice.

<u>HIST 363</u>	Thought and Culture in Early America	3			
HIST 364	Thought and Culture in Modern America	3			
HIST 366	African-American Women	3			
IFMG 101	Microbased Computer Literacy				
1110 101	[same as BEDU/COSC 101]		3		
TEMC 201	Internet and Multimedia [same as		,		
<u>IFMG 201</u>		2			
		3			
<u>ITAL 201</u>	Intermediate Italian III	3			
<u>ITAL 202</u>	Intermediate Italian IV	3			
<u>JRNL 105</u>	Journalism and the Mass Media	3			
<u>JRNL 250</u>	Women and the Press	3			
JRNL 375	World News Coverage	3			
LATN 102	Elementary Latin II	4			
LATN 201	Intermediate Latin (2)	4			
	· · · · · · · · · · · · · · · · · · ·	-			
<u>LIBR 201</u>	Internet and Multimedia [same as	2			
		3			
<u>MATH 121</u>	Calculus I for Business, Natural, and				
	Social Sciences (1)	4			
<u>MATH 122</u>	Calculus II for Business, Natural, and				
	Social Sciences	4			
MATH 123	Calculus I for Physics, Chemistry, and				
	Mathematics (1)	4			
<u>MATH 124</u>	Calculus II for Physics, Chemistry, and	-			
MAIN 124		4			
	Mathematics	4			
<u>MATH 152</u>	Elements of Mathematics II (1)	3			
	(specified majors only)				
<u>MATH 214</u>	Probability and Statistics for Business				
	Majors	3			
<u>MATH 216</u>	Probability and Statistics for				
	Natural Sciences	4			
MATH 217	Probability and Statistics (1)	3			
		-			
MATH 241	Differential Equations	3			
<u>MUHI 301</u>	Music History I	3			
<u>MUHI 302</u>	Music History II	3			
PSYC 310	Development Psychology	3			
PSYC 321	Abnormal Psychology	3			
PSYC 330	Social Psychology	3			
PSYC 378	Psychology of Death and Dying	3			
PHIL 232	Philosophical Perspectives on Love,	•			
<u> </u>	Marriage, and Divorce	3			
DUIT 201					
PHIL 321	Symbolic Logic II	3			
PHIL 323	Political Philosophy	3			
PHIL 324	History of Philosophy I: Ancient and				
	Medieval	3			
PHIL 325	History of Philosophy II: Renaissance				
	and Modern	3			
PHIL 326	Phenomenology and Existentialism	3			
PHIL 330	Philosophy of Science	3			
PHIL 400	Ethics and Public Policy	3			
PHIL 405		3			
	Justice and Human Rights	3			
PHIL 410	Contemporary Analytic Philosophy	3			
PHIL 420	Metaphysics	3			
PHIL 421	Theory of Knowledge	3			
PHIL 450	Philosophy of Law	3 3			
PHIL 460	Philosophy of Language	3			
PLSC 346	Political Sociology [same as SOC 458]	3			
RLST 200	Religion and Culture: Their Interaction	_			
RLST 210	World Scriptures	3			
RLST 260	American Religious Development	3			
RLST 312	Archaeology and the Bible	3			
RLST 329	Philosophy of Religion	3			
<u>RLST 410</u>	Early Christian Thought	3			
<u>RLST 440</u>	Modern Christian Thought	3			
SOC 286	Marriage, Kinship, and the Family	7			
	[same as ANTH 286]	3			
SOC 337	World Societies and World Systems	•	3		
SOC 340	Sociology of Industry	-	3		
			3		
SOC 362	Racial and Ethnic Minorities				
SOC 363	Sociology of Sex and Gender		3		
SOC 445	Social Stratification		3	_	
SOC 458	Political Sociology [same as PLSO	<u>346</u> ]		3	
<u>SPAN 102</u>	Elementary Spanish II	4			
SPAN 122	Spanish for Health Care				
<del></del>	Professionals II	3			
		-			

SPAN 132	Spanish for the Hospitality Industry	II	3
<u>SPAN 201</u>	Intermediate Spanish (2)		4
<u>SPAN 211</u>	Intensive Intermediate Spanish		
	[formerly SPAN 201]		6
WMST 200	Introduction to Women's Studies		3

- (1) Students may use this course to fulfill either the Learning Skills: Mathematics requirement or a Liberal Studies Elective requirement, but not both.
- (2) Higher-level language courses may be substituted by students demonstrating such ability on placement tests.

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# **Requirements for Graduation**

# Non-Western Cultures: One Course from List 3sh\*

\*Students must fulfill this requirement by completing one course from the list; most of these courses will at the same time fulfill other requirements set by Liberal Studies or in some cases by a college or department.

Also fulfil	lls LS Social Science requirement:  Contemporary Anthropology	3		
ANTH 211 GEOG 104 PLSC 101	Cultural Anthropology Geography of Non-Western World World Politics	3 3 3		
Also fulfil	lls LS Elective requirement:	2		
<u>AF131</u> <u>ARHI 300</u> ANTH 271	Introduction to Pan-African Studies Native American Art	3	2	
ANTH 272	Cultural Area Studies: Africa (same as SOC 271) Cultural Area Studies: China (same as SOC 272)		3	
ANTH 273 ANTH 274	Cultural Area Studies: Southeast Asia (same as SOC 273) Cultural Area Studies: Latin America (same as SOC 274)		3 3	
ANTH 314 ANTH 350	Native Americans (same as <u>SOC 314</u> ) Anthropology of Women	3		2
ANTH 365 COMM 230	Native North American Religions (same as <u>RLST 365</u> ) Issues in International Communication	3		3
ECON 350 GEOG 252	Comparative Economic Systems Geography of Latin America	3		
GEOG 254 GEOG 255	Geography of Russia and the Soviet Sphere Geography of Africa	3		
GEOG 256 GEOG 257	Geography of East Asia Geography of South and Southeast Asia	3		
HIST 327 HIST 330 HIST 331	Soviet Union and Contemporary Russia History of the Islamic Civilization Modern Middle East	3 3 3 3 3 3		
HIST 356 HIST 367	African History II (1600 to present) Native American History	3		
<u>ITST 307</u> <u>ITST281</u> PLSC 382	Special Topics in Non-Western Studies Political Systems: Africa	3		
PLSC 387 PLSC 389	Political Systems: Latin America Developing Nations	3		
RS 311 RLS 360	Eastern Philosophy African Religions	3		
RLST 365 RLST 370	Native North American Religions (same as <u>ANTH 365</u> ) Religions of China and Japan	3		3
RLST 375 RLST 380	Religions of India Islam	3		
SOC 271 SOC 272	Cultural Area Studies: Africa (same as <u>ANTH 271</u> ) Cultural Area Studies: China (same as <u>ANTH 271</u> )	3		
SOC 273 SOC 274	Cultural Area Studies: Southeast Asia (same as <u>ANTH 273</u> ) Cultural Area Studies: Latin America (same as <u>ANTH 274</u> )	ı	3 3	
SOC 314 SPAN 244	Native Americans (same as <u>ANTH 314</u> ) Modern Mexico	3 3		
SPAN 344	20th Century Spanish American Culture & Civilization (taught in Spanish)	3		
<u>SPAN 364</u>	Survey of Spanish American Literature (taught in Spanish)	3		
	S Non-Western requirement only:			
CRLG 152,	<u>CRLG 201</u> , or <u>CRLG 251</u> Arabic II, III, or IV <u>CRLG 202</u> , or <u>CRLG 252</u> Chinese II, III, or IV	3		
CRLG 156, 0	CRLG 205, or CRLG 255 Hindi II, III, or IV CRLG 206, or CRLG 256 Hungarian II, III, or IV	3 3		
	CRLG 208, or CRLG 258 Japanese II, III, or IV CRLG 209, or CRLG 259 Korean II, III, or IV	3		

CRLG 162, CRLG 212, or CRLG 262 Russian II, III, or IV	3
ECON 339 Economic Development I	3
PLSC 285 Comparative Government II:	
Non-Western Political Systems	3

Certain Study Abroad programs in non-Western culture areas are offered (information is in the respective catalog section; further information is available in the Office of International Services).

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# **Requirements for Graduation**

Synthesis: One Course 3sh

LBST 499 Senior Synthesis (required of all students)

Prerequisite: 73 or more semester hours earned

This course helps students understand and handle complex intellectual and social issues from multiple perspectives. A selection of topics is available each semester and summer session. Students should schedule the course during the senior year, or at least no earlier than the last half of the junior year. In order to broaden their experiences, students are encouraged to enroll in synthesis sections taught by instructors outside of the students' major fields.

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# **Requirements for Graduation**

# Writing Across the Curriculum: Minimum of Two W Courses

All students must include among the total courses required for graduation a minimum of two designated writing-intensive courses. One of these courses must be in the student's primary major; the other(s) may be in Liberal Studies, college or major requirements, or free electives. Such courses, which involve extensive use of writing as part of the learning experience, are identified with a /W/ in each semester's Schedule of Undergraduate Course Offerings.

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# **Requirements for Graduation**

# **Eligibility and Application for Graduation**

Commencement ceremonies are in May at IUP at the conclusion of the spring semester and in December at the conclusion of the fall semester. Only students who have completed all requirements for graduation by the end of the semester are eligible to participate in the commencement exercises. Students who have withdrawn from courses or have elected to take incompletes or have failed courses during the semester and thus have not met the requirements for graduation may not participate in commencement exercises until those requirements have been fulfilled. Students completing requirements in August and December are included in the program list for the December ceremony.

Students are responsible for knowing and fulfilling the requirements for graduation in their degree program. It is the student's responsibility to complete a form to apply for graduation and submit it to the office of the dean of his/her college early in the term prior to graduation.

Certification for graduation is not final until approved by the dean of the college in which the student is enrolled. Diplomas will not be issued until all bills and obligations have been satisfied, including the degree fee, and final certification for graduation has been issued by the student's college dean.

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# **Requirements for Graduation**

# **Pre-Approval for Transfer Coursework**

Students enrolled at IUP who wish to take coursework at another institution (either during the summer or regular semesters) must complete an Application for Coursework Outside IUP prior to taking the course(s). Only the credits from the course(s) transfer, not the grade; therefore, students cannot use outside coursework for IUP's repeat policy. Only the credits for which students receive the grade of A, B, or C will transfer. If P/F is the only grading option available, there must be a narrative evaluation from the faculty member certifying that the work was of C level or better. No more than 60 semester hours total may be earned at a junior or community college for application toward an IUP degree. If the courses are being taken within the student's last thirty credits, the courses must be taken at IUP unless the student's residency requirement for awarding of degrees is waived by the college dean. Courses without prior approval are taken at the risk of the student; there is no obligation on the part of any officer of this university to accept or transfer such credit.

Forms for approval of off-campus coursework are available in the Office of Transfer Credit Evaluation/Admissions Office. Full directions on the form outline the steps involving the transfer evaluation, student's advisor, and college dean, or designee. After completing off-campus coursework, students should have the institution at which the work was taken send a final official transcript directly to Transfer Evaluation Services, 216 Pratt Drive, IUP, Indiana, PA 15705. Copies of transcripts issued to or hand carried by students will not be accepted.

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# **Requirements for Graduation**

# **Residency Requirement for Awarding of Degrees**

All students receiving an initial IUP baccalaureate degree are required to complete 45 semester hours in IUP courses. At least 15 semester hours in IUP courses are required to fulfill an IUP major and a minimum of 6 semester hours for a minor. Normally, the student will complete the final 30 semester hours in residence in IUP courses, unless specific approval has been secured from the dean of the student's college. Exception to the above requirements for courses to be earned in residence at IUP may be granted by the college deans based upon the appropriateness and academic integrity of the courses in question. This approval is generally sought as part of the process for prior approval of off-campus coursework.

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# **Requirements for Graduation**

# **Non-Native Students: English Language Requirements**

Non-native students of English, either international students or those from the U.S. for whom English is not their first learned language, are required to take an ESL Screening/Placement Test prior to registration in the first semester attending IUP. The test is administered prior to registration in both the fall and spring semesters. Results of this test are used to determine for which English course (ENGL 100/ESL, ENGL 101/ESL, ENGL 202/ESL, ENGL 121/ESL) a newly admitted non-native student must register. In addition, any currently enrolled non-native student can take the regularly scheduled test to determine registration for non-ESL English courses. For further information, contact Chair, English Department, 724-357-2261.

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# **Requirements for Graduation**

# **Program Changes**

To insure their quality and relevance, academic programs at IUP are subject to review and change by duly appointed and responsible university groups. Because of this, the university recognizes that provisions must be made to prevent hardship to students already enrolled in programs if changes later occur in specific or general program requirements. Students affected by changes in programs, policies, and regulations are therefore given the option of following those requirements that are in effect when the student was first enrolled in the program or those in effect at the time of expected graduation. The student cannot, of course, combine chosen elements of the two. Should a question of rule interpretation arise with respect to changes, the student, the student's advisor, or both should petition the college dean for a decision about which requirements apply.

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### **Requirements for Graduation**

### **Timely Completion of Degree Requirements**

The minimum total semester-hour requirement for a baccalaureate degree at IUP is 124. Students who enroll in degree programs that require more than 124, or who seek the added benefit of a double major, minor, or specialized program, or who change majors should plan their sequence of courses carefully with an advisor. Such students should be alert to the possibility that they may need to carry a heavier-than-average class load in order to complete the degree in eight semesters. In some situations, summer work or an extra semester may be necessary. The need to enroll in remedial or other preparatory coursework or to repeat courses may also affect progress toward a degree.

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### **Requirements for Graduation**

#### **Undergraduate Catalog Applicability Time Frame**

The university reserves the right to modify degree requirements through established governance channels. However, the general policy has been established that the following time frame regulations form the basis for application of the university's undergraduate degree requirements:

- 1. A student who has been in continuous registration (fall and spring semesters) or who has interruption(s) of less than two calendar years is governed by the requirements outlined in the catalog in effect at the time of entrance into a degree program (major).
  - a. A student who changes major will be governed by the requirements of the major and/or college at the time of acceptance into the new major, without change of Liberal Studies requirements except as specified by the new major.
  - b. A student entering through the nondegree program is governed by the requirements in effect at the time degree candidacy is awarded.
  - c. A part-time student may be covered by these provisions of continuous registration to a maximum of ten years.
- 2. A student whose education is interrupted by two or more calendar years will be governed by the requirements in effect at the time of readmission to the university. The readmission may carry specific requirements/substitutions necessary to provide for program integrity.
- 3. The applicability of coursework completed more than ten years prior to the degree date is subject to review by the dean or designee for evaluation on a course-by-course basis.

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# The Eberly College of Business and Information Technology

#### The Eberly College of Business and Information Technology

In the spring of 1994, the College of Business was renamed to commemorate the generous commitment of the Eberly family through the Eberly Family Trust to the developmental needs of the college. Departments within the Eberly College of Business and Information Technology include Accounting, Finance and Legal Studies, Management, Management Information Systems and Decision Sciences, Marketing, and Technology Support and Training.

#### **Mission Statement**

The paramount mission of the college is to provide a broad range of high-value undergraduate and graduate business programs for students seeking preparation for professional careers in business and business education and in nonprofit organizations. The college is especially committed to high-quality instruction. In addition, the college is committed to research activities which enhance the quality of instruction and contribute to the literature of businesses and to service activities which enhance the economic vitality of the region and provide linkages and opportunities for involvement of faculty and students with the business community.

A learning environment that includes opportunities for real-world exposure will be provided by the college. Students will be exposed to instructors with industry/consulting experience and will have opportunities for real-world exposure through well-developed internship and outreach programs.

The college will provide opportunities for cross-cultural exposure to all students. This will be achieved by the recruitment of a diverse student body, maintenance of a faculty with diverse cultural backgrounds, and provision of cross-cultural educational opportunities through a network of international exchange partners.

Students will be exposed to the latest information technology. The college will provide a high-tech, multimedia learning environment and student connections to the latest global information bank.

#### **Vision Statement**

The Eberly College of Business and Information Technology will be clearly recognized as having one of the premier business programs in the Commonwealth of Pennsylvania and surrounding states. This will be evidenced by the quality and breadth of its educational programs, the scholarly productivity of its faculty, and its service contributions to the regional business community.

#### **College Majors and Concentrations**

Accounting
Business (Associate of Arts)
Business Education
Business Technology Support
Finance
Human Resource Management
International Business

Management Information Systems
Management with concentrations in Industrial Management, General Management, or Entrepreneurship and Small Business Management
Marketing

The Bachelor of Science degree is offered in Accounting, Finance, Management Information Systems, Management, Marketing, Business Technology Support, and Human Resource Management. The Technology Support and Training Department offers the Bachelor of Science in Education degree with a Business Education major. Two-year Associate of Arts degrees in Business with a concentration in Computers and Office Information Systems or in Business specializing in Accounting are also offered at the Indiana campus.

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# The Eberly College of Business and Information Technology

#### **Bachelor of Science Degree**

For those pursuing the Bachelor of Science degree, IUP's training will provide a broad liberal background in the behavioral sciences; a keen perception of the socioeconomic world in which we live and work; a foundation of general professional education for personally fruitful and socially useful careers in the varied fields of business; and an opportunity to obtain the specialized knowledge and skills essential to future occupational growth and advancement. There are eight Bachelor of Science degrees offered in business—Accounting, Finance, Human Resource Management, International Business, Management, Management Information Systems, Marketing, and Business Technology Support. Each program includes a variety of business and business-related courses which are designed to enrich the student's understanding of the modern business system.

A student may not pursue coursework in the Eberly College of Business and Information Technology with the expectation of graduating from the college unless he/she has been accepted as a degree candidate in the college.

Enrollment in all Eberly College of Business and Information Technology courses at the 300 and 400 level is restricted to students with junior or senior standing. All students, regardless of major or program affiliation, must meet course prerequisite requirements in order to enroll for a given course.

Eberly College of Business and Information Technology students may, in consultation with their advisors, plan their program of study to obtain a minor in an area of business specialization other than their major or a related area outside the Eberly College of Business and Information Technology.

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## The Eberly College of Business and Information Technology

#### **Bachelor of Science in Education Degree**

The college seeks to serve the needs of its students and the needs of business, industry, and education through its diverse programs. The Bachelor of Science in Education with a Business Education major is designed to prepare teachers for comprehensive high schools, area vocational-technical schools, and community colleges.

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## The Eberly College of Business and Information Technology

### **Associate of Arts Degree**

Students who desire a two-year program that prepares them to enter the business world may elect to pursue the Associate of Arts degree program in Business specializing in Computer and Office Information Systems or the Associate of Arts degree program in Business specializing in Accounting.

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# The Eberly College of Business and Information Technology

#### **Eberly COB Academic Policies**

#### **Junior Standing**

To be accepted for Junior Standing a business major must have:

- 1. Accumulated 57 semester hours or more of academic credit; and
- 2. Achieved a 2.0 or higher cumulative GPA; and
- 3. Successfully completed the following courses: <u>ACCT 201</u>, <u>ACCT 202</u>, <u>BEDU 101/COSC 101/IFMG 101</u>, <u>BLAW 235</u>, <u>ECON 121</u>, <u>ECON 122</u>, <u>ENGL 101</u>, <u>ENGL 202</u>, <u>MATH 121</u>, <u>MATH 214</u>, <u>PSYC 101</u>, and <u>QBUS 215</u>.

Business majors (except those majoring in Business Education) who have not achieved Junior Standing are normally not permitted to enroll in 300- or 400-level courses in the Eberly College of Business and Information Technology. Those who have at least 57 semester hours with a 2.0 or better cumulative GPA but who have not completed one or more of the required courses listed above may, with permission, enroll on a one-time-only basis in up to 9 semester hours of 300-level Eberly College of Business and Information Technology courses.

#### **Distribution Requirement**

All Eberly College of Business and Information Technology majors (except those majoring in Business Education) must take a minimum of 50 percent of their degree requirements (i.e., at least 62 semester hours) in non-business\* coursework.

#### **Residency Requirement:**

All Eberly College of Business and Information Technology majors (except those majoring in Business Education) must take a minimum of 50 percent of their required business\* credit hours in IUP coursework. IUP credits earned by examination such as CLEP are counted toward IUP residency.

#### **Restriction for Non-Business Majors**

Students not majoring in business may count a maximum of 30 semester hours in business\* coursework toward the 124-semester-hour-degree minimum. Business credits in excess of 30 will be permitted only as credits beyond the 124 for graduation.

\*For purposes of all policies above, "business" coursework consists of all Eberly College of Business and Information Technology courses except <a href="IFMG 101">IFMG 101</a>, <a href="QBUS 215">QBUS 215</a>, and courses in Business Education (BEDU). <a href="ECON 334">ECON 334</a> is also treated as a "business" course. "Non-business" coursework consists of all BEDU courses, <a href="IFMG 101">IFMG 101</a>, <a href="QBUS 215">QBUS 215</a>, and all non-Eberly College of Business and Information Technology courses except</a> <a href="ECON 334">ECON 334</a>.

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# The Eberly College of Business and Information Technology

#### Office of Academic Services

This office provides academic assistance to lower-division and probationary students. The staff includes student peer advisors and is directed by the associate dean of the Eberly College of Business and Information Technology. Peer advisors are available to answer questions on the processes related to registration, change of major, removal of incompletes, grade appeals, etc.

The Office of Academic Services also houses the internship coordinator for the Eberly College of Business and Information Technology. IUP offers one of the largest business internships in Pennsylvania. Students can choose from a wide range of organizations to gain real-world experience while earning academic credit. The internship coordinator counsels students regarding internship prerequisites, procurement of the internship position, and scheduling to maximum benefit.

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# The Eberly College of Business and Information Technology

#### **School of International Management**

With the increasing demand for cross-cultural knowledge and international competence, Eberly College of Business and Information Technology has committed itself to a comprehensive strategy of providing future business leaders with a global foundation so they may become the world-class managers of tomorrow. The School of International Management offers a rich program that will strengthen business students and provide regional businesses with personnel who have a global perspective and internationally competitive management skills. This global perspective is provided to our students through broad exposure to cross-cultural coursework, integration of international concepts in selected business courses, direct exposure to individuals from other cultures, and a period of residency in another country.

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# The Eberly College of Business and Information Technology

#### **Business Advisory Council**

The Eberly College's Business Advisory Council is a select group of more than a hundred business leaders. The council helps the college in its educational and service mission through counsel and feedback on matters such as program objectives, curriculum development, program development and promotion, and recruitment and retention of students and faculty.

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# The Eberly College of Business and Information Technology

#### **Service Units**

The **Management Services Group** is a confederation of consulting units instituted in 1991 by the Eberly College of Business and Information Technology in support of ongoing and start-up businesses in the Indiana county region. An integral objective of the group is to provide educational opportunities through an ongoing schedule of seminars and workshops for local businesses.

The **Indiana County Small Business Incubator** was established in 1986 as a joint effort between IUP, the Indiana County commissioners, and several county and state agencies. The Ben Franklin Partnership has provided operational capital and other support services since the incubator's inception. The incubator provides small start-up business with consultation, services, and space.

The **Small Business Institute** (**SBI**) was established to assist existing small businesses with various types of problem resolution. Through the SBI, undergraduate and graduate business students work under close supervision of faculty members to assist clients with accounting systems, market studies, computer system installation, business planning, and operations management.

The **Government Contract Assistance Program** helps area businesses identify and respond to federal and state requests for bids for products and services. The program is funded by the Department of Defense. Contract sales generated through this program add to the vitality of the local economy.

The **Center for Family Business** was designed to serve the unique needs of family-owned businesses. Issues such as performance compensation, establishment of an effective corporate board, conflict resolution, management of siblings and cousin teams, succession, and estate planning are critically important and virtually ignored by other educational forums. The center provides an educational program consisting of four meetings per year which focus on the topics outlined above.

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# The Eberly College of Business and Information Technology

### **Department of Accounting**

Chairperson; Anderson, Bradwick, Brown, Danvers, Ghobashy, Hyder, Joseph, Kline, Lindh, Ponko, Pressly, Rahman, Robbins, Woan, Yerep

The Accounting Department provides the training necessary for one to enter the fields of public accounting, managerial accounting, and governmental accounting.

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### The Eberly College of Business and Information Technology

#### **Bachelor of Science-Accounting**

```
Liberal Studies: As outlined in Liberal Studies section
with the following specifications:
                                                                     54-56
Mathematics: MATH 121
Social Science: ECON 121, PSYC 101
Liberal Studies elective: MATH 214, ECON 122, BEDU 101/
COSC 101/IFMG 101, no courses with ACCT prefix
College: Business Administration Core
                                                                     33
Required courses:
ACCT 201
ACCT 202
                 Accounting Principles I
Accounting Principles II
                                                                 3sh
                                                                 3sh
<u>ADMS 321</u>
                  Business and Interpersonal Communications 3sh
BLAW 235
FIN 310
                 Introduction to Business Law
                                                                         3sh
                         Finance I
IFMG 300
MGMT 310
MGMT 330
                 Information Systems:
                                         Theory and Practice 3sh
                 Principles of Management
                                                                 3sh
                 Production and Operations Management
                                                                 3sh
                 Business Policy
MKTG 320
                 Principles of Marketing
                                                                 3sh
                  Business Statistics
                                                                 3sh
Major: Accounting (1)
                                                                      27
Required courses:
ACCT 301
ACCT 302
                 Intermediate Accounting I
                                                                 3sh
                  Intermediate Accounting II
                                                                 3sh
ACCT 311
                 Cost Accounting
                                                                 3sh
<u>ACCT 321</u>
                 Federal Taxes
                                                                 3sh
                  Advanced Accounting
                                                                 3sh
ACCT 412
                  Advanced Cost Accounting
                                                                 3sh
                  Auditing
                                                                 3sh
Controlled electives:
Two courses from this list:
                                                         6sh
ACCT 422, ACCT 435, ACCT 441, ACCT 451, ACCT 461,
ACCT 471, BLAW 336
Other Requirements:
Free Electives:
                                                                     8-10
                                                                    124
Total Degree Requirements:
```

(1) Students must meet the grade prerequisite(s) listed in the course description section of the Undergraduate Catalog prior to advancing to the next course.

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## The Eberly College of Business and Information Technology

#### **Associate of Arts–Business Specializing in Accounting (@)**

The Associate of Arts in Business Specializing in Accounting is designed with these objectives:

- To provide business occupational education with the opportunity for specialization in the accounting area
- To enable the student to enter accounting positions in business and government
- To enable the student to upgrade his/her skills and knowledge to qualify for higher positions in business and government

After successfully completing the program, the student may apply for admission into a four-year baccalaureate program. Admission is not guaranteed. If accepted, all of the semester hours earned in the associate program will qualify towards the four-year degree program in accounting.

```
Liberal Studies: As outlined in the Liberal Studies
                                                                      32 - 23
Section with the following specifications:
English: ENGL 101, 102
Fine Arts: ARHI 101, MUHI 101, THTR 101, or THTR 102
Health and Wellness: 3sh
Humanities: 3sh
Mathematics: 3-4sh (1)
Natural Science: 4sh
Social Science: PSYC 101
Liberal Studies Electives: BEDU 101/COSC 101/IFMG 101, ECON 122
Business Requirements
                                                                           27
Required Courses:
ACCT 201
                 Accounting Principles I
                                                             3sh
ACCT 202
ACCT 301
ACCT 302
                Accounting Principles II
                                                             3sh
                 Intermediate Accounting I
                                                             3sh
                 Intermediate Accounting II
                                                             3sh
                 Cost Accounting
                                                             3sh
BLAW 235
MGMT 310
                 Introduction to Business Law
                                                             3sh
                 Principles of Management
                                                             3sh
MKTG 320
                 Principles of Marketing
                                                             3sh
Select one of the following:
ACCT 321
ADMS 321
                 Federal Taxes
                 Business and Interpersonal Communications
<u>IFMG 300</u>
                 Info Systems: Theory and Practice
Free Electives:
                                                                              3
Total Degree Requirements:
                                                                        62-63
```

- (@) Program revisions pending IUP Council of Trustees approval.
- (1) MATH 121 is acceptable in fulfilling four-year accounting degree curriculum requirements.

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# The Eberly College of Business and Information Technology

#### **Department of Finance and Legal Studies**

Ibrahim J. Affaneh, Chairperson; Ames, Boldin, Duhala, Eastman, T. Ray, Troxell, Welker

#### **Finance Major**

The Finance major, leading to the degree of Bachelor of Science, is designed to prepare students for careers in financial management and in the financial services industry, which includes insurance, investments, and banking. In particular, students are prepared to deal with financial problem solving and investment analysis.

#### **Legal Studies**

Legal Studies offers law and law-related courses with special emphasis on business applications. Legal Studies provides the student with a broad legal and ethical foundation necessary to a career in business or as preparation for pursuit of a law or law-related career.

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## The Eberly College of Business and Information Technology

#### **Bachelor of Science-Finance**

```
Liberal Studies: As outlined in Liberal Studies section
                                                                 54-56
with the following specifications:
Mathematics: MATH 121
Social Science: ECON 121, PSYC101
Liberal Studies elective: MATH 214, ECON 122, BEDU 101/COSC 101/IFMG 101,
no courses with FI prefix
College: Business Administration Core
                                                                   33
Required courses:
ACCT 201
ACCT 202
ADMS 321
BLAW 235
                 Accounting Principles I
                                                               3sh
                 Accounting Principles II
                                                               3sh
                 Business and Interpersonal Communications 3sh
                 Introduction to Business Law
FIN 310
                                                                       3sh
                        Finance I
IFMG 300
MGMT 310
MGMT 330
                 Information Systems: Theory and Practice 3sh
                 Principles of Management
                                                               3sh
                 Production and Operations Management
                                                               3sh
MGMT 495
                Business Policy
                                                               3sh
                 Principles of Marketing
<u>MKTH 320</u>
                                                               3sh
OBUS 215
                 Business Statistics
                                                               3sh
                                                                   27
Major: Finance
Required courses:
ECON 325
            Monetary Economics I
                                                               3sh
FIN 320
                         Finance II
                                                                       3sh
FIN 322
                         Life Insurance
                                                                       3sh
FIN 324
FIN 420
                         Principles of Investments
                                                                       3sh
                         Investment Analysis
                                                                       3sh
                         Seminar in Finance
                                                                       3sh
Controlled electives:
Three courses from the following:
                                                         9sh
ACCT 421, ECON 326, ECON 334, ECON 345, ECON 356, FIN 312,
<u>FIN 355, FIN 385, FIN 410, FIN 424, OBUS 380</u>
Other Requirements:
                                                                   8-10
Free Electives:
                                                                  124
Total Degree Requirements:
```

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## The Eberly College of Business and Information Technology

#### **Bachelor of Science-Business/Pre-Law Track(1)**

Liberal Studies: As outlined in Liberal Studies section

#### **Pre-Law Track in Business**

The Pre-Law track is intended for the student who is a business major concentrating in one of the business areas and interested in law as a career. The pre-law track consists of 21-semester hours selected by the student from a predetermined list of courses spread over six areas of Humanities and Social Sciences. The goals of this track are academic accomplishment, guidance, and advisement. Interested business students should contact the pre-law advisor in the Finance and Legal Studies Department.

```
with the following specifications:
Mathematics: MATH 121
Social Science: ECON 121, PSYC 101
Liberal Studies electives: MATH 214, ECON 122, BEDU 101/COSC 101/IM101,
no courses with major prefix
College: Business Administration Core
                                                                       33
Required courses:
ACCT 201
ACCT 202
ADMS 321
                  Accounting Principles I
                                                                   3sh
                  Accounting Principles II
                                                                   3sh
                  Business and Interpersonal Communications 3sh
BLAW 235
                  Introduction to Business Law
FIN 310
IFMG 300
MGMT 310
                          Finance I
                                                                           3sh
                  Information Systems:
                                           Theory and Practice 3sh
                  Principles of Management
                                                                   3sh
MGMT 330
                  Production and Operations Management
MGMT 495
                  Business Policy
                                                                   3sh
MKTG 320
                  Principles of Marketing
                                                                   3sh
                  Business Statistics
                                                                       27
Major: One Major in Business Administration Areas (1)
Accounting Major
Business Technology Support Major
Finance Major
Human Resources Management Major
Management Major/Industrial Management Track
Management Major/International Business
Management Major/General Management Track
Management Major/Entrepreneurship and Small Business Track
Management Information Systems Major
Marketing Major
Pre-Law Interdisciplinary Program for Business
                                                                       9-21
Seven courses, with at least one course from six areas
Criminology: CRIM 210, CRIM 260, CRIM 357
Economics: ECON 121, ECON 122, ECON 332
           ENGL 212, ENGL 220, ENGL 310
English:
History: HIST 320, HIST 321, HIST 346
Philosophy: PHIL 101, PHIL 222, PHIL 450
Political Science: PLSC 358, PLSC 359, PLSC 361
Free Electives:
                                                                       0-1
```

54-56

- (#) See advisory paragraph <u>Timely Completion of Degree Requirements</u> in catalog section on Requirements for Graduation.
- (1) This program is the generic outline for the pre-law program with any of the listed Eberly College of Business majors.

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# The Eberly College of Business and Information Technology

### **Department of Management**

Prashanth B. Nagendra, Chairperson; Ali, Anderson, Ashamalla, Falcone, Gibbs, Mohamed, Orife, Osborne, J. Ryan, Slack, Soni, Wisnieski; and professors emeriti McGovern, Stevenson

Graduates holding the Bachelor of Science degree in Management (Industrial, General, Entrepreneurship and Small Business Management), Human Resource Management, or International Business may find employment opportunities in both the public and private sectors. Opportunities are expected to be especially plentiful in the services sector (e.g., retailing, health care, information technology, finance, and transportation) where these degrees will be especially valuable.

The Bachelor of Science in Management program offers three concentrations: Industrial Management, General Management, and Entrepreneurship and Small Business Management. Students in the Industrial Management concentration are well grounded in both management theory and application, but their focus is more upon production, operations, and quality, inventory, and capacity management. The concentration in General Management is distinguished by its greater flexibility that can be useful to the student who wishes to design a customized management specialization. Students taking the Entrepreneurship and Small Business Management concentration will focus on creation and operation of a small business. This concentration might also be desirable for graduates who will be working in small businesses where the manager often must wear several hats.

The Bachelor of Science in Human Resource Management prepares individuals in both the theoretical and applied aspects of managing the human resources function in organizations as a generalist or specialist. Students will gain expertise in areas such as job design, staffing, training, compensation, and performance appraisal.

The Bachelor of Science in International Business offers students an opportunity to acquire a thorough understanding of managing global operations in the contemporary business environment. In addition, students develop skills in a traditional functional area. The combination of these two objectives enable students to successfully perform in today's competitive global economy.

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# The Eberly College of Business and Information Technology

### **Bachel or of Science-Management**

with the follow: Mathematics: MZ Social Science:	ECON 121, PSYC 101 electives: MATH 214, ECON 122, BEDU 101/9		54-56 101/IM101,
	ess Administration Core		33
Required courses ACCT 201 ACCT 202 ADMS 321 BLAW 235 FIN 310 IFMG 300	Accounting Principles I Accounting Principles II Business and Interpersonal Communications Introduction to Business Law Finance I Information Systems: Theory and Practice	3sh	3sh
MGMT 310 MGMT 330 MGMT 495 MKTG 320 OBUS 215	Principles of Management Production and Operations Management Business Policy Principles of Marketing Business Statistics	3sh 3sh 3sh 3sh 3sh	
Major: Concentr	ration	2	27
Industrial Manag Required courses ACCT 300 MGMT 300 MGMT 428	gement Concentration 3: Managerial Accounting Human Resources Management Seminar in Management	3sh 3sh 3sh	(1)
Two courses from MGMT 402 or ILR Three courses from additional elements and the BLAW 336, ECON	list: COSC 110 or IFMG 251 n two areas on list: 480, MGMT 401 or MGMT 400, ACCT 311 rom list lectives from above: 371, ECON 372, ENGL 310 or 20, MGMT 481, MGMT 490, MGMT 493(3sh max),	3sh 6sh 9sh	
Required courses  ACCT 300 MGMT 300 MGMT 428 Controlled elect Two Advanced Bus	Managerial Accounting Human Resource Management Seminar in Management cives: siness electives: 300/400 level conomics electives: 300/400 level	3sh 3sh 3sh 6sh 6sh	
Entrepreneurship and Small Business Management Concentration			
Required courses ACCT 300 MGMT 275 MGMT 325 MGMT 403 MGMT 492		3sh 3sh 3sh 3sh	

Internship	6sh
Major Area Restricted Electives	9sh
Other Requirements:	0
Free Electives:	
Total Degree Requirements:	124

- (1) ACCT 301 may be substituted.
- (2) Note prerequisites for controlled electives in planning sequence.
- (3) Only one MGMT and/or one ACCT course may be included in this category.

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## The Eberly College of Business and Information Technology

#### **Bachelor of Science-Human Resources Management**

```
Liberal Studies: As outlined in Liberal Studies section
                                                                           54-56
with the following specifications:
Mathematics: MATH 121
Social Science: ECON 121, PSYC 101
                                MATH 214, ECON 122, BEDU 101/COSC 101/IM101,
Liberal Studies electives:
no courses with MGMT prefix
College: Business Administration Core
                                                                          33
Required courses:
ACCT 201
ACCT 202
                  Accounting Principles I
                                                                      3sh
                   Accounting Principles II
                                                                      3sh
ADMS 321
BLAW 235
                   Business and Interpersonal Communications 3sh
                   Introduction to Business Law
FIN 310
                                                                              3sh
                           Finance I
IFMG 300
MGMT 310
MGMT 330
                  Information Systems: Theory and Practice 3sh
                   Principles of Management
                                                                      3sh
                   Production and Operations Management
                                                                      3sh
MGMT 495
                  Business Policy
                                                                      3sh
MKTG 320
                   Principles of Marketing
                                                                      3sh
OBUS 215
                   Business Statistics
                                                                      3sh
Major: Human Resource Management
Required courses:
ACCT 300
MGMT 300
                  Managerial Accounting
                                                                      3sh (1)
                                                                      3sh
                   Human Resource Management
MGMT 400
                   Compensation Management
                                                                      3sh
MGMT 428
                                                                      3sh
                   Seminar in Management
Controlled electives:
One course from list: ECON 330 or PSYC 390 One course from list: MGMT 401 or MGMT 402
                                                                       3sh
                                                                       3sh
Three courses from list:
                                                                       9sh (2)
ECON 371, ECON 372, ECON 373, ENGL 310, ENGL 312, JRNL 326, ILR 426, ILR 480, MGMT 311, MGMT 493(3sh max), ECON 330 or PSYC 371, PSYC 390(if not above), SOC 340
Other Requirements:
                                                                           8-10
Free Electives:
                                                                          124
Total Degree Requirements:
```

- (1) ACCT 301 may be substituted.
- (2) Note prerequisites for controlled electives in planning sequence.

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# The Eberly College of Business and Information Technology

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4-6

### **Bachelor of Science-International Business**

Liberal Studies: As outlined in Liberal Studies section

with the fellowing appaifiantions:	
with the following specifications:  Mathematics: MATH 121	
Humanities: PHIL 222	
Social Science: ECON 121, PSYC 101, ANTH 110/ANTH 211/	
GEOG 104/PLSC 101	
Liberal Studies elective: MATH 214, ECON 122, BEDU 101/	
COSC 101/IFMG 101,	
no courses with prefix of concentration area	
College: Business Administration Core Required courses:	33
ACCT 201 Accounting Principles I	3sh
ACCT 202 Accounting Principles II	3sh
ADMS 321 Business and Interpersonal Communications	3sh
BLAW 235 Introduction to Business Law	3sh
FIN 310 Finance I	3sh
IFMG 300 Information Systems: Theory and Practice	
MGMT 310 Principles of Management	3sh
MGMT 330 Production and Operations Management MGMT 495 Business Policy	3sh 3sh
MGMT 495 Business Policy MKTG 320 Principles of Marketing	3sh
OBUS 215 Business Statistics	3sh
Foreign Language Requirement (1)  Foreign Residency Requirement (2)	
Major: International Business Required courses:	12
Required courses:	
	12 3sh 3sh
Required courses:  ECON 345	3sh
Required courses:  ECON 345 International Trade  MGMT/MKTG 350 International Business	3sh 3sh
Required courses:  ECON 345 International Trade  MGMT/MKTG 350 International Business  MGMT 454 International Competiveness	3sh 3sh
Required courses:  ECON 345	3sh 3sh 3sh 3sh
Required courses:  ECON 345	3sh 3sh 3sh 3sh
Required courses:  ECON 345  MGMT/MKTG 350  MGMT 454  MGMT 459  Concentration area courses: (select one concentration)  Finance concentration:  FIN 320  FIN 324  Principles of Investments  FIN 410  Financial Institutions and Markets	3sh 3sh 3sh 3sh
Required courses:  ECON 345  MGMT/MKTG 350  MGMT 454  MGMT 459  Concentration area courses: (select one concentration)  Finance concentration:  FIN 320  FIN 324  FIN 324  FIN 410  FIN 410  FIN 424  International Financial Management  FIN 424  FIN 424	3sh 3sh 3sh 3sh 12 3sh 3sh
Required courses:  ECON 345	3sh 3sh 3sh 3sh 3sh 3sh 3sh 3sh 3sh
Required courses:  ECON 345	3sh 3sh 3sh 3sh 3sh 3sh 3sh 3sh 3sh
Required courses:  ECON 345	3sh 3sh 3sh 3sh 3sh 3sh 3sh 3sh 3sh
Required courses:  ECON 345	3sh 3sh 3sh 3sh 3sh 3sh 3sh 3sh 3sh 3sh
Required courses:  ECON 345	3sh 3sh 3sh 3sh 3sh 3sh 3sh 3sh 3sh
Required courses:  ECON 345	3sh 3sh 3sh 3sh 3sh 3sh 3sh 3sh 3sh 3sh
Required courses:  ECON 345	3sh
Required courses:  ECON 345	3sh 3sh 3sh 3sh 3sh 3sh 3sh 3sh 3sh 3sh
Required courses:  ECON 345	3sh
Required courses:  ECON 345	3sh

- 1. Candidates must demonstrate a conversational proficiency in a foreign language. This requirement may be met by: (a) successful completion of 9 intermediate-level semester hours in a specific language, or (b) successful completion of an exemption or credit examination in lieu of the above. A foreign student, registered as such at IUP, whose acquired native language is other than English and who demonstrates an acceptable proficiency in English, can meet the foreign language requirement by successful completion of an exemption examination in the acquired native language.
- 2. Candidates must document one semester of foreign residence (minimum of three months). Normally, the foreign residency requirement will be met in conjunction with a work experience, internship, or student exchange. A substitute cross-cultural experience may be permitted with the recommendation of the academic advisor. The foreign language requirement is a prerequisite to the foreign residency requirement.

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# The Eberly College of Business and Information Technology

#### **Department of Management Information Systems and Decision Sciences**

Louise B. Burky, Chairperson; Albohali, Chen, Halapin, Lloyd, Nahouraii, Pierce, Rodger, Solak, Wibowo; and professor emeritus Spencer

Management Information Systems prepares students for careers in Computer Based Information Systems in organizational environments. Areas such as networking and user/manager involvement in the global business environment are integrated with the traditional skills of programming, analysis and design, database development, various architectures, and application development. Microprocessor technology, the mainframe environment, and client server applications are included. These adhere to standards for a balanced curriculum as promulgated by the Association for Information Systems (AIS), the technology accrediting arm of the American Assembly of Collegiate Schools of Business (AACSB).

Decision Sciences provides students with a knowledge of statistical and quantitative methods used to enhance the business decision process. The methodologies include linear programming, forecasting, simulation, stochastic process, queuing, and network models.

The department creates a learning process that instills in its graduates respect, integrity, excellence, and a commitment to lifelong learning. Internship experiences facilitate the student's entry into full-time employment in a rapidly changing technological environment.

The department welcomes minors for students who are majoring in other business programs. The minor program offers other business majors a technical enhancement to their area of interest, a necessity for today's business manager.

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## The Eberly College of Business and Information Technology

#### **Bachelor of Science—Management Information Systems (\*) (@)**

```
Liberal Studies: As outlined in Liberal Studies section
                                                                        55-58
with the following specifications:
Mathematics: MATH 121
Social Science: ECON 121, PSYC 101
Liberal Studies electives: MATH 214, ECON 122, BEDU 101/COSC 101
no courses with IFMG prefix
College: Business Administration Core
                                                                         33
Required courses:
ACCT 201
ACCT 202
                  Accounting Principles I
                                                                    3sh
                   Accounting Principles II
                                                                    3sh
ADMS 321
BLAW 235
                   Business and Interpersonal Communications 3sh
                   Introduction to Business Law
FIN 310
                                                                             3sh
                           Finance I
IFMG 300
MGMT 310
MGMT 330
                   Information Systems:
                                           Theory and Practice 3sh
                   Principles of Management
                                                                    3sh
                   Production and Operations Management
                                                                    3sh
MGMT 495
                   Business Policy
                                                                    3sh
MKTG 320
                   Principles of Marketing
                                                                    3sh
OBUS 215
                   Business Statistics
                                                                    3sh
Major: Management Information Systems
                                                                        33
Required courses:
COSC 220
IFMG 205
                   Applied Computer Programming
                                                                    3sh
                   Foundations of MIS
                                                                    3sh
IFMG 350
                   Business Systems Technology
                                                                    3sh
IFMG/COSC
IFMG 370
                   LAN Design and Installation
                                                                3sh
                   Advanced COBOL
                                                                    3sh
IFMG 450
                   Data Base Theory and Application
                                                                    3sh
<u>IFMG 451</u>
                   Systems Analysis
                                                                    3sh
IFMG 470
                                                                    3sh
                   Systems Design
COSC 310, COSC 345, COSC 362, COSC 444

IFM372, IFMG 382, IFMG 455, IFMG 480, IFMG 481,

IFMG 485, IFMG 493 (3sh max)

OBUS 380, OBUS 401
                                                                          9sh
Controlled electives:
                                                                                   3sh
Other Requirements:
                                                                           0
Free Electives:
                                                                         2-5
                                                                         126
Total Degree Requirements:
```

- (\*) Distribution Requirement: All Eberly College of Business and Information Technology majors (except those majoring in Business Education) must take a minimum of 50 percent of their degree requirements (i.e., at least 63sh) in non-business coursework.
- (@) Program revisions pending IUP Council of Trustees approval.

on 9:37 PM on 7/23/00.	ne <u>office of the Reg</u>	<u>istrar,</u> with approv	ar from the Offiversh	ty Senate. Last Modified

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## The Eberly College of Business and Information Technology

### Minor-Management Information Systems (@) 15

(for Business Majors in the Eberly College of Business and Information Technology only)

#### Required Courses:

IFMG 205	Foundations of MIS	3sh
IFMG 251	Business Systems Analysis and Design	3sh
<u>IFMG 300</u>	Information Systems: Theory and Practice	3sh
Controlled E	lectives:	

Select 6sh from any IFMG courses except  $\overline{\text{IFMG }101}$  and  $\overline{201}$ .

(@) Program revisions pending IUP Council of Trustees approval.

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# The Eberly College of Business and Information Technology

### **Department of Marketing**

Krish S. Krishnan, Chairperson; Batra, Bebko, Garg, Sciulli, Sharma, Taiani, Weiers

The Bachelor of Science in Marketing program is designed to prepare its majors for a wide range of careers in private and public sector marketing including sales, management, retailing, brand management, customer affairs, marketing research, public relations, and international marketing. The program focuses on integrating technical knowledge in all areas of marketing with analytical and communication skills to prepare the students for the challenges of the global competition in the twenty-first century.

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## The Eberly College of Business and Information Technology

### **Bachelor of Science-Marketing**

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 121 Social Science: ECON 121, PSYC 101 Liberal Studies elective: MATH 214, ECON 122, BEDU 101/COSC 101/IFMG 101, no courses with MKTG prefix	54-56
College: Business Administration Core	33
Required courses:  ACCT 201 ACCT 202 ADMS 321 BLAW 235 FIN 310 IFMG 300 MGMT 310  Accounting Principles I Accounting Principles II Accounting Principles I Accounting Principles II Accounting	3sh 3sh
MGMT 330 Production and Operations Management MGMT 495 Business Policy MKTG 320 Principles of Marketing OBUS 215 Business Statistics	3sh 3sh 3sh 3sh
Major: Marketing	27
Required courses:  ACCT 300 MKTG 321 MKTG 420 MKTG 421 MKTG 421 MKTG 422 ECON MKTG 422 ECON MKTG 420 Marketing Management MKTG 421 Marketing Research Seminar in Marketing Advanced Economics Elective: 300/400-level	3sh 3sh 3sh 3sh 3sh
Controlled electives: Three courses from list: ECON 331, ECON 345, MGMT /MKTG 350, MKTG 430, MKTG 431, MKTG 432, MKTG 433, MKTG 434, MKTG 435, MKTG 436,	
MKTG 437, MKTG 493 (3sh max)	9sh
Other Requirements:	0
Free Electives:	8-10
Total Degree Requirements:	124

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# The Eberly College of Business and Information Technology

### **Department of Technology Support and Training**

Wayne A. Moore, Chairperson; Brandenburg, Hemby, Kovacs, McPherson, C. Ray, Rowell, Szul, Wilkinson, Woodland; and professors emeriti Beaumont, Bianco, Patterson Cordera, Mahan, Moreau, Morris, Polesky, Sheeder, Steigmann, Woomer

This department offers the following degrees

Bachelor of Science in Education with a <u>Business Education major</u>, Bachelor of Science with a major in <u>Business Technology Support</u>, and a two-year Associate of Arts degree in Business with a Computer and Office Information Systems emphasis.

#### **Business Techology Support Major (Bachelor of Science)**

The Business Technology Support majors are equipped to be versatile professionals who "bridge the gap" between the developer of information technology systems and the typical users of computers. The program encompasses the knowledge, skills, and attitudes required of a professional who provides support to users of information technology to maintain and improve overall organizational effectiveness. The Business Technology Support program places emphasis on understanding how technology contributes to individual and work group performance and to behavioral factors, such as communications, ergonomics, training, and change.

The Business Technology Support curriculum is designed to challenge students to understand their dynamic role from both an organizational and individual viewpoint. Graduates of the program can pursue career paths such as office managers/supervisors, web site managers, technology trainers, help desk administrators, and documentation/curriculum developers as they relate to enterprise-wide solutions, support services, and technology training.

The department welcomes minors. A newly revised minor provides Business majors with the opportunity to complement their major with business technology support courses.

### **Business Education Major** (Bachelor of Science in Education)

The IUP Business Education program is accredited by the National Council for Accreditation of Teacher Education (NCATE). The program leads to the degree of Bachelor of Science in Education and to certification in Pennsylvania as a business education teacher.

Our program in business education is dedicated to preparing teachers who will be qualified and certificated to instruct students to live and work in a business environment.

The major is intended for those interested in teaching in public junior and senior high schools, vocational-technical schools, private business schools, or industry. Students have a choice of the following certification areas: accounting, data processing, marketing, office technologies, secretarial, and marketing/distributive education. They must select two or more areas of certification; one of the two areas must be office technologies. Students seeking certification in marketing/distributive education must select the areas marketing and marketing/distributive education. The courses

required in each area are as follows:

Secretarial: BEDU 260\*, BEDU 261\*, BEDU 262\* (Students can transfer credit from another regionally accredited

institution.)

Accounting: ACCT 300, ACCT 301, ACCT 421

Office Technologies: BEDU 250, OSYS 301, OSYS 313, OSYS 400 Data Processing: OSYS 310, IFMG 251, IFMG 255, BEDU 312

Marketing: DEDU 331, MKTG 435, MKTG 436

Distributive Education: MKTG 421, MKTG 433, MKTG elective, DEDU 413\*\*

\*Students should transfer these courses from another Middle States-accredited institution or obtain credit by exam.

A student must apply to the dean of the College of Education and Educational Technology to receive an initial certificate to teach in Pennsylvania's public schools. Certification to be a business education teacher is approved by the dean of the College of Education and Educational Technology when a student has met all the requirements in professional education, Liberal Studies, and business education major courses. Students must attain a 2.5 overall GPA in order to student teach. See details of the 4-Step Process in the section "Admission to Teacher Education and Certification" in the College of Education and Educational Technology section of this catalog. The candidate for certification must also complete successfully the core battery and specialization sections of the National Teachers' Examination.

All students who take a business education major also complete a track in the College of Education and Educational Technology and must meet the standards set by that college (see Department of Technology Support and Training Student Handbook, page 8).

#### **Practical Business Experience**

Before graduation, each business education student must document completion of 500 hours of secretarial practice, accounting practice, data processing, clerical practice, or office-related experience. This experience should be in the field or fields in which the student is contemplating certification and can be acquired during summer vacations and in offices on the campus during the regular school term. Previous documented experience may also be counted.

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<sup>\*\*</sup>Offered on an individualized basis.

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## The Eberly College of Business and Information Technology

### **Bachelor of Science-Office Systems (@)**

with the following	,	5	5-58
College: Required courses ACCT 201	:: Business Administration Core Accounting Principles I	3 3sh	33
ACCT 202 ADMS 321 BLAW 235 FIN 310	Accounting Principles II Business and Interpersonal Communications Introduction to Business Law Finance I	3sh 3sh 3sh	3sh
IFMG 300 MGMT 310 MGMT 330 MGMT 495 MKTG 320 QBUS 215	Information Systems: Theory and Practice Principles of Management Production and Operations Management Business Policy Principles of Marketing Business Statistics	3sh 3sh 3sh 3sh 3sh 3sh	
Major:	_	3	33
Required courses COSC/IFMG 352  OSYS 301 OSYS 310/w/ OSYS 311  OSYS 311  OSYS 411 OSYS 413 OSYS 480 Controlled Elect ADMS 221 BEDU 201 COSC 110 COSC 110 COSC 304 IFMG 251 OSYS 402	Computer Network Installation and Administration Microcomputer Software Solutions Telecommunications Training Methods in Business and Information Technology Support Office Systems Technologies Microcomputer Support for OSYS Enterprise Technology Support Seminar in Business Technology Support seminar in Business Technology Support tives: (select three of the following): Business Technical Writing Internet and Multimedia Problem Solving and Structured Programming Interactive Internet Programming with Java Business Systems Analysis and Design Website Development and Administration	3sh 3sh 3sh 3sh 3sh 3sh 3sh	9sh
OSYS 493 Other Requiremen	Internship hts: (1)		0
Free Electives:		2-	-5
Total Degree Rec	quirements:	12	6

(@) Program revisions pending IUP Council of Trustees approval.

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Liberal Studies: as follows:

# The Eberly College of Business and Information Technology

# Associate of Arts-Business-Computer and Office Information Systems Specialization

Offering specialization in computer and office information systems (COIS), the Associate of Arts Degree in Business is designed to be a two-year curriculum with these objectives:

- 1. To provide business occupational education with the opportunity for specialization in COIS.
- 2. To enable the student to enter COIS positions in business and government.
- 3. To enable the student to upgrade his/her skills and knowledge to qualify for higher positions in business and government.
- 4. To provide the foundation to continue education in a four-year degree program. This program is offered at the Indiana campus only.

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```
English: ENGL 101
Fine Arts: one course from list
Humanities: HIST 195 and one course from LBST list of Philosophy and Religious Studies
Liberal Studies Electives: (1)
      BEDU 201/COMM 201/COSC 201/IFMG 201/LIBR 201, COSC 101/IFMG 101, ECON 122
Math: BEDU 111 or MATH 121
Social Science: PSYC 101 and one course from non-western cultures LBST Social Science list
Major: Business (Associate) Core
                                                             12
Required courses:
<u>ADMS 101</u>
                Introduction to Business
                                                         3sh
ADMS 221
ACCT 201
ACCT 202
                 Business Technical Writing
                                                         3sh
                 Accounting Principles I
                                                         3sh
                 Accounting Principles II
                                                         3sh
Other Requirements:
Computer & Office Specialization:
BEDU 250
                 Electronic Office Procedures
                                                         3sh
BEDU 273
                 Word Processing Applications
                                                        3sh
<u>IFMG 205</u>
                 Foundations of MIS
                                                         3sh
                 Advisor Approved Elective
                                                         3sh
Free Electives:
                                                             6
Other Requirements:
Total Degree Requirements:
                                                             61
```

(1) Students can not repeat the same prefix in this category.

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# The Eberly College of Business and Information Technology

# **Tech Prep**

The Technology Support and Training Department has signed articulation agreements with high schools throughout Western Pennsylvania. Graduates of these approved programs have the opportunity to schedule advanced courses and develop higher-level skills to enhance employment options. For additional information, contact the department secretary at 724-357-3003.

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# The Eberly College of Business and Information Technology

# **Minor--Business Technology Support**

(for Business Majors in the Eberly College of Business and Information Technology only.)

Required Cou	irses:	15
<u>OSYS 301</u>	Microcomputer Software Solutions	3sh
<u>OSYS 310</u>	Telecommunications	3sh
<u>OSYS 313</u>	Office Systems Technologies	3sh
OSYS 315	Records Administration	3sh
<u>OSYS 411</u>	Microcomputer Support for	
	Office Systems	3sh

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# The Eberly College of Business and Information Technology

# **Bachelor of Science in Education-Business Education (\*)**

```
Liberal Studies: As outlined in Liberal Studies section
                                                                       53-55
with the following specifications:
Mathematics: BEDU 111
Social Science: ECON 121, PSYC 101
Liberal Studies electives: ECON 122, MATH 214, BEDU 101/
COSC 101/IFMG 101,
                                                                           33
College:
Professional Education sequence:
BEDU 311
                  Methods & Evaluation in Business
                  Marketing Education I
                                                                  3sh
BEDU 312
                  Methods & Evaluation in Business
                  Marketing Education II
                                                                  3sh
                  Technology for Learning and Instruction
COMM 301
                                                                  3sh
EDEX 301
                  Education of Students with Disabilities
                  in Inclusive Secondary Settings
                                                                  2sh
EDSP 202
                 Educational Psychology
                                                                  3sh
EDUC 242
EDUC 342
                 Pre-student Teaching Clinical Experience I 1sh
                 Pre-student Teaching Clinical
                  Experience II
EDUC 441
                 Student Teaching
                                                                  12sh
EDUC 442
FDED 202
                  School Law
                                                                  1sh
                 American Education in Theory and Practice 3sh
                                                                       45-48
Required courses: Business Education Core
ACCT 201
ACCT 202
          Accounting Principles I
                                                                  3sh
                 Accounting Principles II
                                                                  3sh
ADMS 101
ADMS 321
BEDU 132
                 Introduction to Business
                 Business and Interpersonal Communications
                                                                  3sh
                  Computer Keyboarding and Formatting
BLAW 235
                 Introduction to Business Law
IFMG 300
                  Information Systems: Theory and Practice 3sh
                  Principles of Marketing
Controlled electives:
                                                             21-24sh
Areas of Certification (1)
Accounting: \underline{ACCT} 300, \underline{301}, \underline{421} Data Processing: \underline{IFMG} 205, \underline{251}, and one approved programming elective
Distributive Education: DEDU 413, MKTG 421, 433, one MKTG elective (advisor approved)
Marketing: DE331, MKTG 435, MKTG 436
Office Technologies: BEDU 250, OSYS 301, OSYS 313, OSYS 400
Secretarial: <u>BEDU 132</u>, <u>261</u>, <u>262</u> (2)
Other Requirements:
                                                                       0
Free Electives:
                                                                       130 - 132
(#) Total Degree Requirements:
```

(\*) See requirements leading to teacher certification, titled "Admission to Teacher Education," in the College of Education section of this catalog.

- (1) According to Pennsylvania Commonwealth guidelines, students must be certified in office technologies and at least one other area (accounting, data processing, marketing, or secretarial). An exception of this is certification in marketing/distributive education.
- (2) Students can transfer credit from another regionally accredited institution.
- (#) See advisory paragraph <u>Timely Completion of Degree Requirements</u> in catalog section on Requirements for Graduation.

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# The Eberly College of Business and Information Technology

# **Business Minors for Eberly College of Business and Information Technology Students**

Minors in Accounting, Finance, Human Resources Management, Management Information Systems, Marketing, and Business Technology Support are offered only for students who are majoring in one of the other majors in the Eberly College of Business and Information Technology and assume the common 36-semester-hour Business core.

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# The Eberly College of Business and Information **Technology**

# Minor in Business Administration for Non-Business Majors

The Eberly College of Business and Information Technology offers, as a joint effort of its departments, a 21 semesterhour minor for non-business majors. The program is designed to give non-business majors a general background in business with 12 semester hours of prescribed Liberal Studies courses and 20 semester hours of required business courses.

Prescribed Liberal Studies: Social Science: <a href="ECON 121">ECON 121</a>
<a href="Mathematics: MATH 214">MATH 217</a>
<a href="Mathematics: MATH 214">MATH 217</a>

Liberal Studies Electives: BEDU 101/COSC 101/IFMG 101, ECON 122

Required Busi	ness Courses:	15
ACCT 201	Accounting Principles I	3sh
ACCT 202	Accounting Principles II	3sh
<u>FIN 310</u>	Finance I	3sh
MGMT 340	Principles of Management	3sh
<u>MKTG 320</u>	Principles of Marketing	3sh
Two of the following with advisement:		6
<u>ADMS 321</u>	Business & Interpersonal	
	Communications	3sh
BLAW 235	Introduction to Business Law	3sh
<u>IFMG 300</u>	Information Systems: Theory	
	and Practice	3sh

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# The College of Education and Educational Technology

Since its founding in 1875 as the Indiana Normal School, Indiana University of Pennsylvania has been widely recognized for its excellent programs in teacher education. Although the scope of the university has been greatly expanded, the College of Education and Educational Technology continues the tradition of preparing outstanding teachers to serve the students of the commonwealth and the nation.

The College of Education and Educational Technology comprises nine multidimensional departments which offer twenty-five programs leading to the bachelor, master, and doctoral degrees. Undergraduate programs prepare students in teacher education (elementary, early childhood, secondary, vocational, and special education), communications media, and rehabilitation. In addition, a diverse set of graduate programs, detailed in the *Graduate School Catalog*, meet the needs of practitioners in basic education, higher education, counseling, and communications media.

The departments in the college are Professional Studies in Education, Foundations of Education, Communications Media, Special Education and Clinical Services, Educational and School Psychology, Counselor Education, Student Affairs in Higher Education, Adult and Community Education, and the University School. Each department makes a unique contribution to the total preparation of students within the college. Some programs provide service courses to enhance the professional preparation of students; others, such as professional programs in teacher education, public school administration, and personnel services, lead to certification for public school teaching or supervision in the Commonwealth of Pennsylvania.

The college is well known for its opportunities to practice "hands-on" learning. Over five hundred students enjoy early field experiences each semester. In addition, the college places about six hundred student teachers each year in public schools which provide a full semester of supervised teaching experience. Students are encouraged to take advantage of a full range of activities offered in urban, rural, and multicultural settings.

Practical experiences are important for students majoring in communications media and rehabilitation as well. Students in these programs are prepared in one of the largest internship programs in Pennsylvania. They select supervised work experiences with agencies throughout the commonwealth and neighboring states; many students are so successful in their internship placements, they are hired immediately upon graduation.

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# The College of Education and Educational Technology

# **Summary of Certification Programs Offered**

- Bachelor of Science in Education (B.S.Ed. with certification)
  - Elementary Education
  - Early Childhood Education
  - Secondary Education

(For details see the <u>College of Humanities and Social Sciences</u>)

- English
- French
- German
- Social Science
- Spanish

(For details see the <u>College of Natural Sciences and Mathematics</u>)

- Biology
- Chemistry
- Earth and Space Science
- General Science
- Mathematics
- Physics

(For details see the <u>College of Health and Human Services</u>)

- Family and Consumer Sciences Education (Home Economics)
- Health and Physical Education

(For details see the <u>College of Fine Arts</u>)

- Art
- Music

(For details see the <u>Eberly College of Business and Information Technology</u>)

Business

#### Special Education

- Speech-Language Pathology and Audiology
- Education of Exceptional Persons
- Education of Persons with Hearing Loss

(for details, see the School of Continuing Education)

- Vocational/Technical Education
- Bachelor of Science Degree (B.S.)
  - Rehabilitation
  - Communications Media
- Graduate Programs (See the Graduate School Catalog.)
- Masters Degree (M.Ed. unless otherwise noted)
  - Adult and Community Education (M.A.)
  - Business
  - Counselor Education
  - Early Childhood Education
  - Education of Exceptional Persons
  - Educational Psychology
  - Elementary Math Education
  - Literacy
  - Masters in Education
  - Mathematics Education
  - Music Education (M.A.)
  - Speech-Language Pathology (M.S.)
  - Student Affairs in Higher Education (M.A.)
  - Teaching/English (M.A.)
- Doctoral Degree (D.Ed.)
  - Elementary Education
  - School Psychology
  - Education Leadership (with Superintendent's Letter of Eligibility)

#### Certification Only

- Reading Specialist
- School Psychologist
- Elementary/Secondary Principal
- Superintendent's Letter of Eligibility

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# The College of Education and Educational Technology

# **Teacher Certification Programs**

Programs in teacher education provide students with opportunities to gain competence in both generic and programspecific competencies. Students who prepare to become teachers should be able to demonstrate:

- 1. depth and breadth of knowledge in subject matter content and pedagogical skills.
- 2. an understanding of and the ability to apply the theoretical and practical aspects of human growth and development as they relate to teaching and learning.
- 3. skills and abilities to work collaboratively with others.
- 4. professional commitment to students, colleagues, and the community.
- 5. the belief that professional development is an ongoing process.
- 6. an understanding of the historical and philosophical foundations of American education.

Teacher education programs at IUP focus on student learners who are taught and guided by a faculty committed to the preparation of competent teachers. Students preparing to become teaching professionals must exhibit humanism and adaptability, practice and communicate critical thinking skills, and become excellent role models. These qualities are developed through coursework and activities that emphasize the liberal studies in concert with appropriate professional pedagogy. Collaboration is modeled as university faculty, public school personnel, and students work together to accomplish goals of the IUP teacher education programs.

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# The College of Education and Educational Technology

# **Degree Requirements**

All degree candidates in the College of Education and Educational Technology (except for three special programs) must satisfactorily complete a minimum of 124 semester hours in three categories: Liberal Studies, a specialized major field, and professional education. Program revisions are ongoing in an attempt to provide teachers in training with the most current information related to teaching and learning. Students should always consult with advisors to determine what changes, if any, have been made in their chosen program of study.

**Liberal Studies**-52-55 semester hours, described in this catalog under Requirements for Graduation.

**Specialized major field**-requirements listed under department offerings.

#### **Professional Education-**30 semester hours, as follows:

<u>COMM 301</u>	Technology for Learning and Instruction	3sh
EDUC 242	Pre-student Teaching Clinical Experience I	1sh
EDUC 342	Pre-student Teaching Clinical Experience II	1sh
EDUC 442	School Law	1sh
EDSP 202	Educational Psychology	3sh
EDSP 377	Educational Tests and Measurements	3sh
FDED 202	American Education in Theory and Practice	3sh
	Methods Course - (Teaching of)	3sh
	Student Teaching - (One semester)	12sh

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# The College of Education and Educational Technology

# **Change of Major to the College of Education**

Students who wish to transfer to a teacher education program in the College of Education and Educational Technology must have a cumulative GPA of 2.5 or higher. Students should complete the university Change of Major form and submit it to the department chairperson for the new program of study. The application for a change of major is reviewed by the department chairperson and/or coordinator for the teacher education program to which application has been made. If requirements are met and approval is granted, the Dean's Office in the College of Education and Educational Technology processes the application.

Some programs in the College of Education and Educational Technology require internal transfers to complete Step 1 of the 4-Step Process. Students entering these programs need to submit all Step 1 paperwork with the Change of Major form. Students should consult with the department chairperson or program coordinator of the new major to determine specific requirements for effecting a change of major.

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# The College of Education and Educational Technology

# **Admission to Teacher Education Programs**

Note: These regulations are in the process of revision pending new Pennsylvania state regulations.

University policy outlines a 4-Step Process for all students seeking teacher certification; the process applies to students from the time they are admitted to the teacher certification program until they graduate with recommendation for certification. The 4-Step Process policy consists of four separate phases: Teacher Certification, Junior Standing, Student Teaching, and Recommendation for Certification. It is imperative that students thoroughly understand the policies, procedures, and consequences of the 4-Step Process as it applies to their program of study.

Admission to teacher education programs is competitive and requires students to meet the requirements outlined in Step 1 of the 4-Step Process. To qualify for admission to teacher education, all students must complete a minimum of 29 semester hours with a cumulative GPA of 2.5 or higher; in addition, students are required to submit the four items listed below. Students who do not achieve and maintain a cumulative GPA of 2.5 or higher are unable to take coursework in the teacher education core. Some programs apply the same standard to courses in the professional core as well.

Details of specific program requirements can be found in the section of the catalog which describes each department's programs of study. For example, a description of the Chemistry Education program may be found under the College of Natural Sciences and Mathematics, Chemistry Department, Secondary Chemistry Education; a description of the Music Education program is located under the College of Fine Arts, Music Department, Music Education; and the Elementary Education program is described under the College of Education and Educational Technology, Professional Studies in Education Department, Elementary Education.

Admission to teacher education programs is governed by the 4-Step Process. This procedure is designed to improve the quality of teacher education and maintain program integrity. The process consists of four steps, with evaluation and advisement occurring at each step.

Admission to Teacher Certification Admission to Junior Standing Admission to Student Teaching Recommendation for Certification

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# The College of Education and Educational Technology

# **Admission to Teacher Education Programs**

#### I. Admission to Teacher Certification

**Procedure:** Admission to teacher education programs at IUP is competitive. Although students may be accepted into the College of Education and Educational Technology at initial application, they are not officially admitted to teacher education programs until qualified under the 4-Step Process. To qualify for admission to Step 1: Teacher Certification, a student should follow the guidelines listed below.

**Requirements:** At the point a student believes he or she will complete 29 or more semester hours with a cumulative GPA of 2.5 or higher, he/she must file an application for admission to the teacher education program. The application includes the following materials:

- 1. verification of completion of at least 29 semester hours
- 2. verification of a cumulative GPA of 2.5 or higher
- 3. a completed Teacher Certification Application signed by the advisor
- 4. official ACT 34/151 clearance forms
- 5. a physician's statement of TB clearance
- 6. a clinician's statement of speech test clearance
- 7. a clinician's statement of hearing test clearance

When all papers are prepared, they are submitted to the academic advisor for review and evaluation. The advisor recommends approval or denial and forwards the application to the Dean's Office, College of Education and Educational Technology, for processing. Applications are processed immediately if all requirements are met.

Applications may be held for second semester freshmen waiting for grades/credits ONLY; applications will be processed following posting of semester grades.

**Results:** If all Step 1 requirements are met, the student will be notified by letter of his/her admission to the Teacher Certification Program. This official admission makes the student eligible to take Core Education courses including: <a href="COMM 301">COMM 301</a> Technology for Learning and Instruction; <a href="FDED 202">FDED 202</a> American Education in Theory and Practice; <a href="EDSP">EDSP</a> 202 Educational Psychology; and <a href="EDUC 242">EDUC 242</a> Pre-Student Teaching Clinical Experience I. **No student is allowed to register for Core Education courses until s/he has been granted admission to Teacher Certification.** 

In some programs, official admission to Teacher Certification is required before enrollment in program coursework is permitted. Students should consult with their advisors or department chairperson to determine specific requirements for their program of study.

No student is guaranteed admission to the Teacher Certification Program. Acceptance into a program is at the discretion of the advisor, department, and College of Education and Educational Technology. Any student with a criminal record should contact the College of Education and Educational Technology immediately to determine his/her eligibility to become a commonwealth teacher.

Any student denied admission to the Teacher Certification Program must reapply at the time deficiencies are met.

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# The College of Education and Educational Technology

# **Admission to Teacher Education Programs**

#### II. Admission to Junior Standing

**Procedure:** When a teacher education candidate believes he/she will complete 59 or more semester hours with a minimum cumulative GPA of 2.5, she/he must file an application for Junior Standing with the Dean's Office in the College of Education and Educational Technology.

#### **Requirements:**

- 1. Admitted to Teacher Certification
- 2. Completed at least 57 semester hours which may include accepted transfer credits
- 3. Minimum cumulative GPA of 2.5
- 4. Completion of ENGL 101 or equivalent with a grade of C or better
- 5. Completion of EDUC 242 and EDSP 202 with grades of C or better
- 6. Final speech and hearing clearances for students not cleared at initial testing
- 7. Submission of a Planned Program of Study on an approved form

Some programs have additional requirements for admission to Junior Standing; students should consult with their academic advisor, program coordinator, or department chair to determine specific program requirements.

The application is reviewed, evaluated, and signed by the academic advisor. If all requirements are met, the application is forwarded to the Dean's Office in the College of Education and Educational Technology for processing.

**Results:** The student is sent written notification of his/her acceptance to Junior Standing. Upon official admission, the student is eligible to enroll in the following courses: <u>EDUC 342</u> Pre-Student Teaching Clinical Experience II; <u>EDUC 442</u> School Law; <u>EDSP 377</u> Educational Tests and Measurements; and courses in the methods of teaching.

If a student has not met the requirements of Step 2: Junior Standing, the student will be so informed by the Dean's Office in the College of Education and Educational Technology. Enrollment in Core Education courses will be denied until all deficiencies are met.

A student may reapply for admission to Junior Standing when he/she has met all prerequisite requirements.

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# The College of Education and Educational Technology

# **Admission to Teacher Education Programs**

#### III. Admission to Student Teaching

**Procedure:** Students who have completed all university, college, and departmental requirements are eligible to apply for admission to Student Teaching. An application should be filed with the Office of College-School Partnerships at least one semester before the actual experience.

#### **Requirements:**

- 1. Admission to Junior Standing
- 2. Satisfactory completion of at least 91 semester hours with a cumulative GPA of 2.5 or higher
- 3. Completion of the required Liberal Studies science courses with grades of C or better
- 4. Completion of the required Liberal Studies mathematics course with a grade of C or better
- 5. Completion of all required professional education core courses with grades of C or better (<u>FDED 202</u>, <u>EDSP 202</u>, <u>COMM 301</u>, <u>EDUC 242</u>, <u>EDUC 342</u>, <u>EDUC 442</u>, <u>EDSP 377</u> (when required), and methods course(s) in the major area)
- 6. Affirmative recommendation by the student's major department advisor or program coordinator
- 7. Verification of the special education competency by a) <u>EDEX 300</u> Education of Students with Disabilities in Inclusive Elementary Classrooms (for elementary and early childhood majors), b) <u>EDEX 301</u> Education of Students with Disabilities in Inclusive Secondary Classrooms (for majors in secondary subject areas and K-12 specialty areas), or c) the Special Education Competency Test.
- 8. Submit evidence of final criminal and child abuse clearances (Acts 34/151 for Pennsylvania residents or FBI clearance for out-of-state students).
- 9. Satisfy supplemental departmental requirements, if any, as approved by the Faculty Senate and described in the department section of the undergraduate catalog.

**Results:** Students who make application and meet all requirements for Admission to Student Teaching will be placed for the final clinical experience by the Office of College-School Partnerships. **Placement is at the discretion of the student's major department and the Office of Educational College-School Partnerships.** Confirmation of acceptance and approval is made in writing and permits the student to register for student teaching during the normal registration process.

If requirements for Student Teaching have not been met, the student is informed in writing and will be administratively removed from the student teaching placement. The student may not register for student teaching until deficiencies are removed.

In keeping with university policy, all student teachers are required to be registered for Student Teaching before they enter the classroom on the first day.

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# The College of Education and Educational Technology

# **Admission to Teacher Education Programs**

#### IV. Recommendation for Certification

**Procedure:** Complete application for the Pennsylvania Department of Education Certification and file with the Office of Educational College-School Partnerships by the listed dates appropriate to the anticipated date of graduation.

#### **Requirements:**

- 1. A minimum grade of C in all professional education courses and an overall grade-point average of 2.5
- 2. Review and recommendation by the major academic advisor indicating completion of all departmental teacher education requirements.
- 3. Completion of student teaching with a minimum grade of C.
- 4. Successful completion of the PRAXIS Core Battery, PRAXIS General Knowledge, and PRAXIS Specialty Area tests.

**Appeal Provision:** A student who believes that any requirement of this policy has been inequitably applied or that he/she merits special consideration may appeal through the proper channels: academic advisor, chairperson, College of Education and Educational Technology dean (or designee), teacher education appeals committee. Appeals must be made before the end of the next regular academic semester following the application.

Every effort should be made to resolve the appeal through the process so described. If, at the conclusion, the student is still in disagreement with the findings, the student may request review before a special Teacher Education Appeals Committee. The committee will be composed of three voting members representing the faculty, cooperating teachers, and students to be elected each year by the Teacher Education Coordinators Council of the Academy for Teacher Preparation.

To initiate an appeal, the student must file a form obtained at the Dean's Office, College of Education and Educational Technology. Appeals will be heard only during the regular academic semester. The student will be expected to submit written documentation of his/her complaint about the process of review for continuation or eligibility in the teacher education program. The committee will review the materials and make its recommendation to the dean, College of Education and Educational Technology. A final decision rests with the associate dean of College School Partnerships.

**End Notes:** In all cases where advisor action is required, a department may choose to use a committee or other departmentally approved process. In cases where recommendations are supplied by someone other than the academic advisor, the department needs to place a copy of its policy and procedures on file with the dean of the College of Education and Educational Technology.

Some departments have additional Junior Standing requirements in place. Departments may continue to apply those requirements but need to keep a current copy of these requirements on file with the dean of the College of Education and Educational Technology.

The policy as here stated applies to all students applying to Teacher Certification Programs on or after September 1,

1988, and includes updated procedures and editorial revisions as submitted to the University Senate in May, 1990; May, 1992; and April, 1997.

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# The College of Education and Educational Technology

# **Student Teaching**

Student teaching is designed to be the culminating learning experience for prospective teachers. Student teachers practice teaching and managing a classroom under the supervision of a full-time master teacher in an off-campus center. A university supervisor is assigned to work with individual student teachers and cooperating teachers. To gain admission to student teaching, applicants must have achieved a minimum cumulative GPA of 2.5. In addition, students must complete all requirements of the 4-Step Process and should complete all other components of the Liberal Studies and professional core before student teaching. Some programs have standards above the minimum 2.5 cumulative GPA and/or course grade expectations above the minimum grade of C. Each student should counsel with his/her advisor for information about specific program requirements related to qualification for student teaching.

Student teaching is the capstone experience in the program of the emerging professional educator. Student teaching assignments are the responsibility of the university. To avoid conflicts of interest, students will normally not be assigned to districts from which they graduated or to districts in which they permanently reside or to schools in which an immediate family member is employed.

Exceptions to this policy may be made in large urban school districts such as Pittsburgh and Philadelphia where there are numerous elementary and secondary schools so avoidance of assigning student teachers to their "home school area" can be achieved.

Any exception to this policy must be approved by the dean, College of Education and Educational Technology, or his/her designee.

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# The College of Education and Educational Technology

## **Field Placements**

The Office of Student Teaching determines final placements for all field work conducted in the public schools. In accordance with university policy, students must be officially enrolled in the course for which the field work is being done. Students entering a classroom without being duly registered are in violation of university policy and may place themselves at risk legally.

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# The College of Education and Educational Technology

# Removal of a Student Teacher from a Student Teaching Placement

**Purpose:** To establish reasons or a process for removal of a student teacher from the student teaching assignment. The first two items are consistent with Act 34, Criminal Record Check; item 3 establishes a procedure if student behavior is not consistent with appropriate expectations of the school district; item 4 establishes a process and assures that the student teacher learns of unsatisfactory progress as early as possible; and item 5 is an appeal process.

**Policy:** Student teachers are ultimately guests of the cooperating school districts and may be removed by the district officers. A student teacher may also be removed by IUP from the student teaching assignment for any of the following reasons:

- 1. If **indicted** for a felony which is covered in the School Code and Act 34, there shall be a removal of the student teacher from the school assignment until the matter is cleared. When the student is cleared of the indictment, the student teaching assignment will be extended to cover the time missed during student teaching.
  - 1. If convicted of a felony **which is covered in the School Code and Act 34,** the student teacher will be withdrawn from the student teaching assignment and will forfeit the time spent during the student teaching assignment.
  - 2. If the behavior exhibited by the student teacher is not acceptable to the school district, it should be documented by the school administrator/principal in collaboration with the cooperating teacher and the university supervisor/coordinator and director, Student Teaching Office. If after discussion with the student, improvement is evidenced, no further action will be taken by the Student Teaching Office.
  - 3. If it is determined either by the cooperating teacher or university supervisor that the teaching competency of the student teacher is at an unsatisfactory level based on the teaching competencies indicated on the evaluation form and not in the best interest of the students, a three-way conference of cooperating teacher, university supervisor, and student will be held to discuss the concern, possible outcomes, and remedial strategies. If after consultation with the university director of Student Teaching, removal from this student teaching placement is necessary, this action shall be done by the director of Student Teaching and the dean of the College of Education and Educational Technology. This behavior should be documented and discussed as early in the student teaching experience as possible.
  - 4. Decisions made under this policy may be appealed to the dean, College of Education and Educational Technology (certification officer).

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# The College of Education and Educational Technology

# **Certification Requirements**

College of Education and Educational Technology requirements for recommendation for certification as a teacher, as well as the intermediate steps leading to commonwealth certification, are outlined in the 4-Step Process. The requirements include:

- a minimum grade of C in all professional education courses and a cumulative GPA of 2.5
- review and recommendation by the major academic advisor indicating completion of all university and departmental teacher education requirements
- completion of student teaching with a minimum grade of C
- successful completion of the PRAXIS Core Battery, PRAXIS General Knowledge, and PRAXIS Specialty Area Tests
- competency in working with students with special needs (Special Education)

Applications for certification cannot be processed until the student completes the Bachelor of Science in Education degree or its equivalent.

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# The College of Education and Educational Technology

## **Dual Certification**

The departments of Professional Studies in Education and Special Education and Clinical Services have developed guidelines for students wishing to complete academic requirements for a second certification.

Students majoring in Elementary Education may do this in Education of Persons with Hearing Loss, Education of Exceptional Persons, or Early Childhood Education; Early Childhood Education majors may do this in Education of Persons with Hearing Loss, Education of Exceptional Persons, or Elementary Education.

Majors in Education of Persons with Hearing Loss or Education of Exceptional Persons may do this in either Early Childhood Education or Elementary Education.

Forms for applying for dual certification are available in the offices of the two departments. Applications must be approved by the student's advisor and by the department chairperson or assistant chairperson of both departments. Students are advised that the completion of requirements will take approximately two extra semesters, and they may wish to explore the possibility of completing the second certification at a graduate level.

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# The College of Education and Educational Technology

# **Commonwealth Requirements for Teacher Certification**

(Excludes Vocational Instructional Certification. See "Center for Vocational Personnel Preparation" in the School of Continuing Education section of this catalog.)

Certification standards for commonwealth public school teachers are established by the Pennsylvania Department of Education and the Pennsylvania Board of Education. The academic advisor of the student's major department must verify for the dean of the College of Education and Educational Technology that all academic requirements are met. The student's name is then placed on the graduation list.

Applicants for certification must sign an attestment of United States citizenship. Applicants who are not citizens must have an immigrant visa which permits them to seek employment within the United States, and they must have declared the intent to become citizens of the United States. Applicants must also submit a physical examination report and certify they are not in the habit of using narcotic drugs in any form, do not use excessive amounts of intoxicating beverages, are not currently under indictment by legal authorities, and have not been convicted of a criminal offense. Applicants who are unable to meet one or more of these requirements must submit a full explanation with the application. In addition, they must attest to the fact that all information supplied in the application is accurate.

The Pennsylvania Department of Education issues an Instructional I certificate to beginning teachers upon graduation from and recommendation by the College of Education and Educational Technology. All candidates for the Instructional I certificate must successfully pass the National Teacher Exam general knowledge battery and selected specialty areas tests. Since IUP is a designated test site, registration for the PRAXIS may be completed through University Testing Services in the Career Services office. After completion of 24 additional semester hours of collegiate and/or in-service coursework and with successful teaching experience, students are eligible to receive an Instructional II certificate, which is a permanent certification to teach in the Commonwealth of Pennsylvania.

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# The College of Education and Educational Technology

# **Professional Certification Application Fee**

Beginning Fall Semester, 1998, all applicants for Teacher Certification or Professional Education Certifications from the Commonwealth of Pennsylvania through IUP will be assessed a \$40 application fee. Of that fee, \$15 will be forwarded to the Bureau of Teacher Certification, Pennsylvania Department of Education, in Harrisburg with the IUP recommendation for certification. Add-on and second certifications processed through IUP will also be assessed this fee. Requests for processing out-of-state teacher certification applications will be assessed a \$25 processing fee per request.

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# The College of Education and Educational Technology

# The University Clinics

Two clinics under the supervision of the College of Education and Educational Technology offer diagnostic testing, remedial services, and instruction. The Speech and Hearing Clinic is organized and managed by the Department of Special Education and Clinical Services. The Child Study Center is housed in the Department of Educational and School Psychology.

The Speech and Hearing Clinic is staffed by Special Education faculty and supervised graduate students working toward advanced degrees in Speech-Language Pathology. Using state-of-the-art equipment, clinic personnel provide diagnosis of speech problems and hearing tests and evaluations, as well as a regular program of therapy for clients. As part of this program, clinic staff members provide testing and necessary therapeutic services to all teacher education candidates, who must meet strict speech and hearing clearances. Regularly enrolled students at the university, including all teacher certification candidates, are eligible to receive these services without charge.

The Child Study Center provides opportunities for Educational Psychology graduate students in the post-master's certification and doctoral programs to acquire professional skills under the supervision of certified faculty supervisors. Clinic personnel provide psychological assessment for children and adolescents with learning and/or behavior problems. They also provide consultation for parents and public school personnel involved with these children.

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# The College of Education and Educational Technology

# **The University School**

Judith M. Hechtman, Director; Beisel, Ellermeyer, Ford Grove, Mambo, Stephenson, Yost; and professors emeritae Fleming, Lingenfelter, Martin, Walthour

The University School is located in Davis Hall on the IUP campus, where it is housed with the departments of Professional Studies in Education and Special Education and Clinical Services. The University School provides a program of instruction for students in kindergarten through sixth grade. In addition, the school offers a rich variety of experimental and research activities for IUP faculty and students. Faculty members from disciplines as varied as music, physical education, Spanish, elementary education, and special education have ongoing programs which are carried out at the University School. Each year, hundreds of teacher education students participate in activities such as observations, lesson presentations, and student teaching. Graduate students utilize the University School to conduct research on teaching and learning. Research and experimental activities are scheduled with the director of the University School.

The University School is a member of the National Association of Laboratory Schools. Faculty members at the University School have received many grants and teaching awards in recognition of their contributions to the education profession.

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# The College of Education and Educational Technology

# **Department of Adult and Community Education**

#### Trenton R. Ferro, Chairperson; Dean

The Department of Adult and Community Education is a graduate department offering two programs leading to the Master of Arts degree. Adult and Community Education helps students develop skills related to teaching and planning educational programs for adults in a wide variety of settings, including business and industry, the community, social service organizations, health agencies and hospitals, colleges and universities, the government, and religious institutions. The Master of Arts in Adult Education and Communications Technology (AECT), jointly administered with the Department of Communications Media, prepares students to become adult educators with an emphasis on the use of technology, including computers, production design, radio and television, and distance education technology. Completion of appropriate requirements allows students in the AECT program to apply for PDE certification as an Instructional Technology Specialist.

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# The College of Education and Educational Technology

# **Department of Communications Media**

Kurt P. Dudt, Chairperson; Ausel, Handler, Juliette, Kanyarusoke, Kornfeld, Lamberski, Leidman-Golub, Lenze, Start, Wilson; and professors emeriti Klinginsmith, MacIsaac, Murray, Young

The department offers a Bachelor of Science in Communications Media and two minors, one in Communications Media and one in Educational Technology. The minor in Communications Media is an 18-semester-hour program designed to complement any major. The minor in Educational Technology is a 24-semester-hour program designed for students in the College of Education and Educational Technology who are completing a teaching degree. The department also serves preservice teachers and other students who are required to complete <a href="COMM 301">COMM 301</a> Technology for Learning and Instruction.

The philosophy of the Communications Media Department is to prepare generalists in the area of communications. Our students may select from a number of elective courses, depending on their career interests.

The department faculty offers a wide variety of experience in all areas of communications media. With the combination of classroom work and the optional internship program, departmental graduates are competitive for positions in various areas. Students graduating with a degree in Communication Media have obtained positions in such areas as radio, television, cable television, public relations, advertising media, media relations, and corporate media relations.

Students changing majors from other academic departments within the university are required to be in good academic standing before the transfer will be approved.

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# The College of Education and Educational Technology

# **Bachelor of Science Degree--Communications Media**

Liberal Studies: As outlined in Liberal Studies section 53-58 with the following specifications: Social Science: PSYC 101 Liberal Studies electives: BEDU 101/COSC 101/IMFG 101, no courses with COMM prefix, not to include courses cross-listed courses with COMM				
Major: Required Courses  COMM 101 Communications Media in American Society Aesthetics and Theory of Communications Media COMM 395 COMM 475 COMM 475 COMM 493 COMM 493 Internship (summers only)  Minimum of one course from the following list: COMM 302 COMM 303	3sh 3sh 1sh 1sh 12sh			
COMM 330 Instructional Design for Training and Development COMM 403 Broadcast Newswriting	3sh 3sh			
Minimum of two courses from the following list:  COMM 240 COMM 249 Basic Audio Recording Techniques COMM 251 Television Production COMM 271 Beginning Photography COMM 340 Advanced Communication Graphics COMM 349 Radio Production COMM 351 COMM 371 COMM 371 COMM 440 Multimedia Production COMM 449 Advanced Audio Recording Techniques COMM 451 Broadcast News Process COMM 471 Electronic Imaging	3sh			
Controlled Electives: Other Communications Media elective courses including courses from the above lists not taken as part of those requirements.	13-19			
Other Requirements: Courses outside Communications Media that augment the student's major course of study (advisor approval)	21			
Free Electives:	3-8			
(#) Total Degree Requirements	124			
(#) A maximum of 12sh of COMM 493 can be applied to requirements for graduation.				

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# The College of Education and Educational Technology

## **Minor-Communications Media**

**18** 

Required courses:

COMM 101 Communications Media in American Society
COMM --- Electives in Communication Media

3sh 15sh

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# The College of Education and Educational Technology

# **Minor-Educational Technology**

24

#### Required courses:

COMM 101 COMM 460 BEDU/COSC/IFMG 101 COMM --- Communications Media in American Society Alternative Systems of Communication Microbased Computer Literacy Electives in Communications Media

3sh 3sh 3sh 15sh

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# The College of Education and Educational Technology

# **Department of Educational and School Psychology**

Mary Ann Rafoth, Chairperson; Barker, Briscoe, Damiani, Hoellein, Levinson, Quirk, Rattan; and professors emeriti DeFabo, Meadowcroft, Yanuzzi

The department provides courses to undergraduate and graduate students. Undergraduate students may declare a minor in Educational Psychology by making application to the director of the minor program. Fifteen semester hours of Educational Psychology courses are required for the minor.

The department also offers the M.Ed. in Educational Psychology as well as a post-master's certification and a Doctor of Education in School Psychology. Refer to the current <u>Graduate School Catalog</u> for details.

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# The College of Education and Educational Technology

# **Department of Foundations of Education**

#### Thibadeau; and professor emeritus Chu

The Department of Foundations of Education serves all undergraduate students in teacher certification preparation with an introductory course, American Education in Theory and Practice. Additional areas of coursework include urban education, curriculum development, and contemporary issues and trends in education.

Graduate courses offered by this department include Comparative, Historical, Philosophical, and Social Foundations of Education; Curriculum Development; Professional Negotiations in Education; and International Education Studies Program. For specific information concerning these courses, see the current edition of the <u>Graduate School Catalog</u>.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# The College of Education and Educational Technology

# **Department of Professional Studies in Education**

- 1. Elementary Education Program
- 2. Early Childhood Education Program
- 3. Graduate Programs

George R. Bieger, Chairperson; Briscoe, Carreiro, Cole Slaughter, Corbett, Creany, Doverspike, Elliott, Farrah, Fennimore, Gerlach, Hannibal, Illig-Aviles, Jalongo, Kaufman, King, Kupetz, Mikkelsen, Millward, Nastase, Stamp, Tidwell, Mark Twiest, Meghan Twiest, L. Vold, Yan; and professors emeriti Dorsey, Glott, Lott, McFeely, Mott, Reilly, Rizzo, E. Vold

#### **Elementary Education Program**

The Elementary Education program is designed to provide learning experiences which will assist students in developing into highly competent and effective teachers in grades K-6. Students are able to expand their knowledge through coursework and field experiences which embody content, knowledge of liberal studies, pedagogy, curriculum, human development and learning, and a historical and philosophical basis to undergird one's professional behavior. A 2.5 cumulative GPA is required to apply for teacher certification, to take major courses in the department, to apply for Junior Standing, and to student teach.

#### **Early Childhood Education Program**

The Early Childhood Education Program is designed to provide learning experiences which assist students to become competent and effective teachers in N-Grade 3. It prepares the students to select from among a variety of techniques and strategies those which appropriately expand children's cognitive, social, emotional, and physical development. Through lectures, research, and on-site experiences with young children, students are able to expand their own knowledge of and attitudes toward education of young children.

A 2.5 cumulative GPA is required to apply for teacher certification, to take major courses in the department, to apply for junior standing, and to student teach. Students must meet the requirements leading to teacher certification as outlined in this catalog.

#### **Graduate Programs**

Programs leading to the M.Ed. and Ed.D. degrees are described in the current issue of the <u>Graduate School Catalog</u>. Internships and assistantships are available.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

Total Degree Requirements:

# The College of Education and Educational Technology

## **Bachelor of Science in Education-Elementary Education (\*)**

```
Liberal Studies: As outlined in Liberal Studies section
                                                                       56-57
with the following specifications:
Mathematics: MATH 151
Natural Science: SCI 101, SCI102, SCI 103, and SCI 104 (1)
Social Science:
                  GEOG 101, GEOG 102, or GEOG 104 (one course), PSYC 101
Fine Arts: THTR 101
Liberal Studies electives: MATH 152 (2);
no courses with ELED prefix; not to include HMEC 218
                                                                        27
Professional Education sequence: (3)
COMM 301
EDSP 202
            Technology for Learning and Instruction
                                                              3sh
            Educational Psychology
                                                              3sh
EDSP 377
            Educational Tests and Measurements
                                                              3sh
EDUC 242
EDUC 342
            Pre-student Teaching Clinical Experience I
Pre-student Teaching Clinical Experience II
                                                              1sh
                                                              1sh
EDUC 441
                                                             12sh
            Student Teaching
EDUC 442
            School Law
                                                              1sh
            American Education in Theory and Practice
                                                              3sh
                                                                        36
Major:
Required courses:
ELED 211 Music for the Elementary Grades ELED 213 Art for the Elementary Grades
                                                               2sh
                                                               2sh
ELED 215
          Child Development
                                                              3sh
ELED 221
ELED 222
ELED 257
                                                              3sh
           Children's Literature
            Reading for the Elementary School
                                                              3sh
            Pedagogy I
                                                               3sh
ELED 312
            Teaching of Elementary Science
                                                              2sh
            Teaching Mathematics in the
            Elementary School
                                                              3sh
            Teaching of Health and Physical Education
ELED 357
                                                               3sh
            Pedagogy II
ELED 411
            Teaching of Social Studies
                                                              3sh
ELED 425
            Language Arts Across the Curriculum
                                                              3sh
EDEX 300
            Education of Students with Disabilities in
             Inclusive Elementary Classrooms
                                                              2sh
EDUC 499
            Multicultural/Multiethnic Education
                                                              2sh
Other Requirements:
                                                                       6
Special electives from a defined discipline (3)
                                                                       125-126
```

- (\*)See requirements leading to teacher certification, titled <u>Admission to Teacher Education</u> in the College of Education section of this catalog.
- (1) This sequence of 10sh fulfills the Liberal Studies natural science requirement.
- (2) For students who test out of MATH 152, consult your advisor for suggested math courses.
- (3) More than twenty options are available for groupings in specific departments or cross-departmental areas. This requirement is also fulfilled by completion of an approved specialty such as FLISET, math, or reading.

- FLISET: see requirements in this catalog.
- Mathematics: <u>MATH 317</u>, <u>420</u>, <u>456</u>, <u>457</u>, <u>458</u>, <u>459</u>, <u>471</u>, <u>483</u> (math concentration requires 15sh to include <u>MATH 151</u>, 152)
- Reading: <u>EDUC 408</u>, <u>ELED 422</u>, <u>ECED 220</u> or <u>451</u> (reading concentration requires 15sh to include <u>ELED 221</u>, <u>222</u>, <u>425</u>) Students may select a set of special electives from the list of Liberal Studies electives or non-Western courses that have not been used previously in their program. With permission of the chairperson of Professional Studies in Education and a specific department, a student may be allowed to create an area of specialty other than those listed. See department office for full listing; check prerequisites carefully. Submit plan to advisor for approval.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# The College of Education and Educational Technology

# **Dual Certification-Elementary Education for Majors in Education of Persons with Hearing Loss**

Students majoring in Early Childhood Education, Persons with Hearing Loss, or Education of Exceptional Persons may complete academic requirements for certification in Elementary Education by completing the following requirements. Students are advised that completion of requirements for a second certification will take approximately two extra semesters. In certain circumstances, such as for transfer students, students who must repeat courses, or when students take courses out of sequence, earning this second certification may take longer.

```
ECED 312
EDUC 342
            Aesthetic Experiences for Young Children
                                                                  3sh
            Pre-student Teaching Clinical Experience II (EL)
                                                                  1sh
EDUC 421
            Student Teaching (1)
                                                                   6sh
ELED 221
            Children's Literature
                                                                   3sh
            Teaching of Elementary Science
ELED
                                                                  2sh
ELED 313
            Teaching Mathematics in the Elementary School (2)
                                                                  3sh
ELED 257
            Pedagogy I
                                                                   3sh
ELED 357
            Pedagogy II
                                                                   3sh
ELED 411
            Teaching of Social Studies
                                                                  3sh
           Language Arts Across the Curriculum
ELED 425
                                                                  3sh
Recommended electives:
ELED 351
           Creative Activities in the Elementary School
                                                                  3sh
```

- (1) Students are required to do 6sh of student teaching in the regular elementary classroom in addition to the 12sh required in the EDHL major, or a total of 18sh of student teaching inclusive for both certifications.
- (2) MATH 152 is a prerequisite for ELED 313 and should be taken as a Liberal Studies elective.

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# The College of Education and Educational Technology

# **Dual Certification-Elementary Education for Majors in Education of Exceptional Persons**

Students majoring in Early Childhood Education, Persons with Hearing Loss, or Education of Exceptional Persons may complete academic requirements for certification in Elementary Education by completing the following requirements. Students are advised that completion of requirements for a second certification will take approximately two extra semesters. In certain circumstances, such as for transfer students, students who must repeat courses, or when students take courses out of sequence, earning this second certification may take longer.

ECED 312 EDUC 342	Aesthetic Experiences for Young Children Pre-student Teaching Clinical Experience II (EL)	3sh 1sh
EDUC 421	Student Teaching (1)	6sh
ELED 221	Children's Literature	3sh
ELED 312	Teaching of Elementary Science	2sh
<b>ELED 313</b>	Teaching Mathematics in the Elementary School(2)	3sh
<u>ELED 257</u>	Pedagogy I	3sh
<u>ELED 357</u>	Pedagogy II	3sh
<u>ELED 411</u>	Teaching of Social Studies	3sh
ELED 425	Language Arts Across the Curriculum	3sh
Recommended	d electives:	
ELED 351	Creative Activities in the Elementary School	3sh

(1)Students are required to do 6sh of student teaching in the regular elementary classroom in addition to the 12sh required in the EDEX major, or a total of 18sh of student teaching inclusive for both certifications.

(2) MATH 152 is a prerequisite for ELED 313 and should be taken as a Liberal Studies elective.

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# The College of Education and Educational Technology

# **Dual Certification—Elementary Education for Majors in Early Childhood Education**

Students majoring in Early Childhood Education, Persons with Hearing Loss, or Education of Exceptional Persons may complete academic requirements for certification in Elementary Education by completing the following requirements. Students are advised that completion of requirements for a second certification will take approximately two extra semesters. In certain circumstances, such as for transfer students, students who must repeat courses, or when students take courses out of sequence, earning this second certification may take longer.

```
EDUC 421 Student Teaching (Grade 4, 5, or 6) (2) 6sh
ELED 312 Teaching of Elementary Science (Junior Block) 2sh
ELED 313 Teaching Mathematics in the Elementary School (1) 3sh
ELED 411 Teaching of Social Studies (Junior Block) 3sh
ELED 425 Language Arts Across the Curriculum 3sh
```

- (1) MATH 152 is a prerequisite for ELED 313 and should be taken as a Liberal Studies elective.
- (2) Student teaching (12sh) for the first certification, Early Childhood Education, in grade K, 1, 2, or 3 will be completed prior to student teaching for this second certification.

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# The College of Education and Educational Technology

# **Bachelor of Science in Education-Early Childhood Education (\*)**

Liberal Studies: As outlined in Liberal Studies section with the following specifications:  Mathematics: MATH 151  Natural Sciences: SCI 101, SCI 102, SCI 103, and SCI 104  Social Science: GEOG 101, GEOG 102, or GEOG 104; PSYC 101  Liberal Studies electives: no courses with ECED prefix; not to include HMEC 218	56	
College: Professional Education sequence:	27	
COMM 301 Technology for Learning and Instruction  EDSP 202 Educational Psychology  EDSP 377 Educational Tests and Measurements  EDUC 242 Pre-student Teaching Clinical Experience I  EDUC 342 Pre-student Teaching Clinical Experience II  EDUC 441 Student Teaching  EDUC 442 School Law  FDED 202 American Education in Theory and Practice	3sh 3sh 3sh 1sh 1sh 1sh 3sh	
Major:	43	
Required courses: (1)  ECED 200 Introduction to Early Childhood Education	3sh	
ECED 220 Language Development and Children's Literature	3sh	
ECED 310 Integrated Curriculum I (Math, Science)	3sh	
ECED 311 Integrated Curriculum II (Social Science)	3sh	
ECED 312 Aesthetic Experiences for Young Children	3sh	
ECED 315 Development and Learning Through Play	3sh	
ECED 451 Teaching Primary Reading EDEX 300 Education of Students with Disabilities	3sh	
in Inclusive Elementary Classrooms	3sh	
EDEX 415 Preschool Education for Children with Disabilities	3sh	
EDUC 499 Multicultural/Multiethnic Education	2sh	
ELED 215 Child Development	3sh	
ELED 257 Pedagogy I	3sh	
ELED 357 Pedagogy II	3sh 3sh	
<pre>HMEC 426 Techniques of Parent Education MATH 320 Mathematics for Early Childhood</pre>	3sn 3sh	
Free Electives:	3	
Makal Barrasa Barrasaranka	100	

Total Degree Requirements:

129

- (\*) See requirements leading to teacher certification in the catalog section on Academic Policies, <u>Admission to Teacher Education</u>
- (1) A 2.5 overall grade-point average is required to register for major courses.

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# The College of Education and Educational Technology

# **Dual Certification-Early Childhood Education for Majors in Education of Persons with Hearing Loss**

Students majoring in Education of Persons with Hearing Loss, Elementary Education, or Education of Exceptional Persons may complete academic requirements for certification in Early Childhood Education by completing the following requirements. Students are advised that completion of requirements for a second certification will take approximately two extra semesters. In certain circumstances, such as for transfer students, or students who must repeat courses, or when students take courses out of sequence, earning this second certification may take longer.

ECED 200	Introduction to Early Childhood Education	3sh
ECED 220	Language Development and Children's Literature	3sh
ECED 310	Integrated Curriculum I	3sh
<u>ECED 311</u>	Integrated Curriculum II	3sh
ECED 315	Development and Learning Through Play	3sh
EDUC 242	Pre-student Teaching Clinical Experience I (1)	1sh
<b>EDUC 342</b>	Pre-student Teaching Clinical Experience II (EDEC)	1sh
EDUC 421	Student Teaching (N-3) (2)	6sh
<b>ELED 357</b>	Pedagogy II	3sh
<u>MATH 320</u>	Mathematics for Early Childhood	3sh
Dogommondo	d electives:	
Recommende		
EDEC 312	Aesthetic Experiences for Young Children	3sh
ELED 351	Creative Activities in the Elementary School	3sh

- (1) EDHL majors must complete 10 hours of observation in an N-3 classroom.
- (2) EDHL majors must complete 6sh of student teaching in ECED (N-3) in addition to the 12sh required in the EDHL major, or a total of 18sh of student teaching inclusive for both certifications.

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# The College of Education and Educational Technology

# **Dual Certification-Early Childhood Education for Majors in Education of Exceptional Persons**

Students majoring in Education of Persons with Hearing Loss, Elementary Education, or Education of Exceptional Persons may complete academic requirements for certification in Early Childhood Education by completing the following requirements. Students are advised that completion of requirements for a second certification will take approximately two extra semesters. In certain circumstances, such as for transfer students, or students who must repeat courses, or when students take courses out of sequence, earning this second certification may take longer.

ECED 200	Introduction to Early Childhood Education	3sh
ECED 220	Language Development and Children's Literature	3sh
ECED 310	Integrated Curriculum I	3sh
ECED 311	Integrated Curriculum II	3sh
ECED 315	Development and Learning through Play	3sh
EDEX 415	Preschool Education of Children with Disabilities	3sh
<b>EDUC 242</b>	Pre-student Teaching Clinical Experience I (1)	1sh
<b>EDUC 342</b>	Pre-student Teaching Clinical Experience II (ECED)	1sh
<b>EDUC 421</b>	Student Teaching (N-3) (2)	6sh
ELED 357	Pedagogy II	3sh

#### Recommended electives:

ECED 312	Aesthetic Experiences for Young Children	3sh
ELED 351	Creative Activities in the Elementary School	3sh

- (1) EDEX majors must complete 10 hours of observation in an N-3 classroom.
- (2) EDEX majors must complete 6sh of student teaching in ECED (N-3) in addition to the 12sh required in the EDEX major, or a total of 18sh of student teaching inclusive for both certifications.

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# The College of Education and Educational Technology

# **Dual Certification Early Childhood Education for Majors in Elementary Education**

Students majoring in Education of Persons with Hearing Loss, Elementary Education, or Education of Exceptional Persons may complete academic requirements for certification in Early Childhood Education by completing the following requirements. Students are advised that completion of requirements for a second certification will take approximately two extra semesters. In certain circumstances, such as for transfer students, or students who must repeat courses, or when students take courses out of sequence, earning this second certification may take longer.

```
Introduction to Early Childhood
        (Spring Semester-Sophomore Block only)
                                                            3sh
ECED 310
          Integrated Curriculum I
        (Spring Semester-Junior Block only) (1)
                                                           3sh
           Integrated Curriculum II
        (Spring Semester-Junior Block only)*
                                                           3sh
          Development and Learning through Play
        (Fall Semester)
                                                            3sh
          Preschool Education of Children with
       Disabilities (Spring Semester)
                                                           3sh
EDUC 421
           Student Teaching (Grade K, 1, 2, or 3) (2)
                                                           6sh
```

- (1) These are block (field experience) courses. Plan carefully to have time for a field placement. Check with your advisor and the coordinator of the Early Childhood Junior Field Experience.
- (2) Student teaching (12sh) for the first certification, Elementary Education, in grade 4, 5, or 6 will be completed prior to student teaching for this second certification.

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# The College of Education and Educational Technology

# Foreign Languages and International Studies Program for Elementary Teaching (FLISET) (2)

Elementary Education/Early Childhood majors may develop an academic specialty in Spanish and International Studies, which will prepare them to teach in elementary programs in which content teaching in the foreign language is the objective. To complete this specialty area, students must: (1) attain a minimum level of intermediate-high on the ACTFL/ETS scale; (2) successfully complete a six-week summer study/internship abroad at a site approved by the department (usually the summer following the junior year); (3) successfully complete the student teaching experience in a bilingual or immersion elementary school classroom; and (4) complete the following minimum number of semester hours in Spanish:

Required courses	3 <b>:</b>		22	(1)
<u>SPAN 201</u>	Intermediate Spanish	4sh		
<u>SPAN 221</u>	Intermediate Conversation	3sh		
<u>SPAN 230</u>	Intermediate Spanish Composition			
<u>SPAN 290</u>	Spanish for Elementary Teaching	3sh		
<u>SPAN 321</u>	Advanced Spanish Conversation	3sh		
<u>SPAN 340</u>	Hispanic Civilization			
	Through the 19th Century	3sh		
<u>SPAN 390</u>	Teaching of Elementary Content			
	Through the Spanish Language	3sh		
			_	
	cive: one course		3	
SPAN XXX	Elective (taken abroad)	3sh		
_				
Other Requiremen	nts:		0	
GEOG 252, PLSC	<u>387</u> , or <u>ANTH 474</u>			
as the non-West				
Study/internship	o in Mexico			
for six to eight	t weeks the			
summer following		-6sh		
Student teaching	g experience			
in immersion cla	assroom	0sh		

- (1) While the total number of semester hours required in Spanish in order to attain the desired proficiency level will vary from student to student depending on the entry level of proficiency, most students can expect to complete between 25 and 31 sh.
- (2) Students interested in the program should contact the director of the FLISET Program in the Department of Spanish and Classical Languages or the FLISET coordinator in the Department of Professional Studies in Education.

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# The College of Education and Educational Technology

# **Department of Special Education and Clinical Services**

Richard C. Nowell, Chairperson; Appl, Baker, Domaracki, Ferrell, Glor-Sheib, Hayden, Hoffman, Jackson, Klein, Marshak, Mendes, Reber, Robertson, Stein, Tellis, Turton; and professors emeriti M. Bahn, W. Bahn, Fiddler, Morris, Scanlon, Shane

This department offers the degree of Bachelor of Science in Education in any one of four majors. Each of the four majors follows a prescribed sequence of courses. Students may elect to major in any one of the following fields:

- A. Education of Exceptional Persons
- B. Speech-Language Pathology and Audiology
- C. Rehabilitation
- D. Education of Persons with Hearing Loss

The following grade policy applies to all four undergraduate programs of study in the Department of Special Education and Clinical Services. Individual students may appeal any aspect of the policy by making a formal written request to the Departmental Appeals Committee.

- 1. No more than one "D" in major courses will be accepted toward graduation and certification.
- 2. No "D" is permitted as the final recorded grade in any of the following courses.

```
EDEX 425: Methods and Curriculum (Mild-Moderate Disabilities)
EDEX 435: Methods and Curriculum (Severe-Profound Disabilities)
EDHL 308: Language for Persons with Hearing Loss
EDUC 421: Student Teaching
EDUC 441: Student Teaching
ENHAB 322: Rehabilitation Case Study and Interpretation
RHAB 488: Field Training in Rehabilitation I
RHAB 493: Field Training in Rehabilitation II
SPLP 122: Clinical Phonology
```

The following enrollment policy applies to three undergraduate programs in the Department of Special Education and Clinical Services: Education of Exceptional Persons, Education of Persons with Hearing Loss, and Speech-Language Pathology and Audiology. To enroll in a 300 or 400 level course in those programs, a student must have a minimum 2.5 cumulative GPA and must meet the other provisions of the 4-Step Process for admission to teacher education and must either be a departmental major or have permission of the department chairperson.

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# The College of Education and Educational Technology

## **A. Education of Exceptional Persons**

Completion of the sequence of study in this major leads to Pennsylvania Department of Education special education certification (Mentally and/or Physically Handicapped Certificate). Students will be prepared to teach persons with mental retardation, autism, developmental disabilities, learning disabilities, brain injuries, emotional/behavioral disorders, physical disabilities, and multiple disabilities. Academic coursework and field experiences are integrated within the course of study. The program also provides a foundation for pursuing additional study at the graduate level.

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Liberal Studies: As outlined in Liberal Studies section

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# The College of Education and Educational Technology

# **Bachelor of Science in Education-Education of Exceptional Persons (\*)**

54-55

124-125

	dates. As outlined in liberal Studies section		34-33
with the f	ollowing specifications:		
Mathematic			
Social Sci			
Natural Sc	ience: laboratory science required (SCI 105-SCI	106 rec	commended)
	udies electives: no course with EDEX prefix		
	adio olovoli no oddiso wiem protin		
College:			27
	al Mination someones		21
	al Education sequence:		
<u>COMM 301</u>	Technology for Learning and Instruction	3sh	
EDSP 202	Educational Psychology	3sh	
EDSP 377	Educational Tests and Measurements	3sh	
EDUC 242	Pre-Student Teaching Clinical Experience I	1sh	
EDUC 342	Pre-Student Teaching Clinical Experience II	1sh	
EDUC 421	Student Teaching (Mild/Moderate)	6sh	
EDUC 441	Student Teaching (Severe/Profound)	6sh	
EDUC 442	School Law	1sh	
FDED 202	American Education in Theory and Practice	3sh	
FDBD ZOZ	American Education in incory and reactice	3311	
Major:			43
-			43
Required c			
<u>EDEX 111</u>	Introduction to Exceptional Persons	3sh	
<u>EDEX 112</u>	Typical and Atypical Growth and Development	3sh	
EDEX 221	Methods of Teaching Mathematics to Persons		
	with Disabilities	3sh	
EDEX 222	Methods of Teaching Reading to Persons		
	with Disabilities	3sh	
EDEX 231	Methods of Teaching Content Area Subjects to		
	Persons with Disabilities	3sh	
EDEX 321	Methods of Teaching Language Arts to Persons	5511	
HDHII JHI	with Disabilities	3sh	(1)
EDEX 340	Introduction to Behavior Management in	3311	( _ /
EDEA 340	Special Education	3sh	
EDEX 416	Education of Persons with Emotional or	3811	
<u>EDEX 416</u>		2 1-	
41 <i>-</i> -	Behavioral Disorders	3sh	
<u>EDEX 417</u>	Education of Persons with Mental Retardation or		
	Developmental Disabilities	3sh	
<u>EDEX 418</u>	Education of Persons with Physical or		
	Multiple Disabilities	3sh	
<u>EDEX 419</u>	Education of Persons with Brain Injuries or		
	Learning Disabilities	3sh	
EDEX 425	Methods and Curriculum		
	(Mild-Moderate Disabilities)	3sh	
EDEX 435	Methods and Curriculum		
	(Severe-Profound Disabilities)	3sh	
EDEX 440	Ethical and Professional Behavior	1sh	
SPLP 254	Classroom Management of Language Disorders	3sh	
DELLE AUT	Crabbioom management of Danguage Disorders	2511	

(\*) See requirements leading to teacher certification in the catalog section on Academic Policies, <u>Admission to</u>

Total Degree Requirements:

Teacher Education

<sup>(1)</sup> A minimum QPA of 2.5 is required to enroll in 300 and 400 level major courses

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# The College of Education and Educational Technology

# **Dual Certification-Education of Exceptional Persons**

Students majoring in Elementary Education or Early Childhood Education may complete academic requirements for certification in Education of Exceptional Persons by completing the following requirements. Students are advised that completion of requirements for a second certification will take approximately two extra semesters.

EDEX 111	Introduction to Exceptional Persons	3sh
or		
EDEX 300	Education of the Students with Disbilities in the	
	Inclusive Elementary Classroom	2sh
EDEX 416	Education of Persons with Emotional or Behavioral Disorders	3sh
EDEX 417	Education of Persons with Mental Retardation	
	or Developmental Disabilities	3sh
EDEX 418	Education of Persons with Physical or Multiple Disabilities	3sh
EDEX 419	Education of Persons with Brain Injuries	
	or Learning Disabilities	3sh
EDEX 425	Methods and Curriculum (Mild-Moderate Disabilities)	3sh
EDEX 435	Methods and Curriculum (Severe-Profound Disabilities)	3sh
EDEX 440	Ethical and Professional Behavior	1sh
EDUC 342	Pre-student Teaching Clinical Experience II (EDEX)	1sh
EDUC 421	Student Teaching (1) (EDEX)	6sh
Recommende	d electives:	
EDEX 340	Introduction to Behavior Manageament in Special Education	3sh
SPLP 254	Classroom Management of Language Disorders	3sh

(1) The 6sh of student teaching in EDEX with students with severe and profound disabilities are in addition to the 12sh normally required for Elementary Education or Early Childhood Education majors.

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# The College of Education and Educational Technology

## B. Speech-Language Pathology and Audiology

Completion of the sequence of courses in Speech-Language Pathology and Audiology serves as a preprofessional program for students planning to become practicing speech-language pathologists or audiologists. Students entering the undergraduate program should be aware of the following:

- 1. IUP is accredited by the Educational Standards Board of the American Speech-Language-Hearing Association and qualifies a person for the Certificate of Clinical Competence from the American Speech-Language-Hearing Association and Pennsylvania State Licensure.
- 2. National certification, state licensure, and Pennsylvania Department of Education Certification in Speech-Language Impaired are available only to holders of the master's degree in Speech-Language Pathology.
- 3. Students will need to project a minimum cumulative GPA of 3.0 to qualify for admission to most graduate schools.
- 4. Upon completion of a master's degree at IUP, students will be prepared to provide services in work settings such as hospitals, community clinics, public health programs, and rehabilitation settings.
- 5. Students who elect to prepare for certification in Speech-Language Impaired from the Pennsylvania Department of Education must successfully complete the College of Education and Educational Technology requirements listed below prior to enrollment in the Master of Science degree in the Speech-Language Pathology program at IUP.

The University Speech and Hearing Clinic serves as the laboratory for the undergraduate clinical practicum. Prior to registration for the clinical practicum course (SPLP 420), students must earn a minimum cumulative 3.0 GPA and complete the following hours of observation through enrollment in EDUC 242 and 342:

- A. 25 hours of observation in speech-language pathology supervised by an IUP faculty member who holds a Certificate of Clinical Competence in Speech-Language Pathology.
- B. 20 hours of classroom observation
  - 1. Five hours in regular education classrooms, K-3.
  - 2. Five hours in special education classrooms.
  - 3. Five hours in regular education classrooms with integrated special students.
  - 4. Five hours in community facilities such as preschools, sheltered workshops, etc. Services in this category should be of a noneducational nonspeech pathology type.

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# The College of Education and Educational Technology

# **Bachelor of Science in Education-Speech-Language Pathology and Audiology (\*)**

Liberal Studies: As outlined in Liberal Studies section with the following specifications:  Mathematics: MATH 217 Social Science: PSYC 101 Natural Science: laboratory science sequence required (BIOL 103-BIOL 104 recommended) Liberal Studies electives: PSYC 310, no courses with SH prefix			
<pre>College (*): The following are required ONLY for student electing the pre-teacher certification track:</pre>	s	0-13	
Professional Education sequence: COMM 301 Technology for Learning Instruction EDSP 202 Educational Psychology EDUC 442 School Law FDED 202 American Education in Theory and Practice SPLP 412 Organization and Administration of Speech and Hearing Programs	3sh 3sh 1sh 3sh		
Major:		38-41	
Required courses:  EDEX 111 EDEX 222  Methods of Teaching Reading to Persons with Disabilities  EDUC 242 Pre-Student Teaching Clinical Experience I EDUC 342 Pre-Student Teaching Clinical Experience II Introduction to Communication Disorders SPLP 111 SPLP 112 Clinical Phonology SPLP 222 Introduction to Audiology SPLP 242 Speech Science I SPLP 251 Anatomy and Physiology of the Speech and Hearing Mechanism SPLP 311 SPLP 334 Speech Science II SPLP 342 SPLP 342 SPLP 342 SPLP 340 SPLP 340 SPLP 340 SPLP 406 SPLP 408 Stuttering and Voice Disorders SPLP 408	3sh 3sh 1sh 1sh 3sh 3sh 3sh 3sh 3sh 3sh 3sh 3sh 3sh		
Optional: SPLP 420 Speech Clinic  Free Electives: EDUC 499 recommended General Track	3sh	28-32	
Pre-Teacher Certification Track  Total Degree Requirements		15-19 124	

- (\*) See requirements leading to teacher certification in the catalog section on Academic Policies, <u>Admission to Teacher Education</u>
- (1) A minimum QPA of 2.5 is required to enroll in all 300 and 400 level courses for both pre-teacher certification and noncertification speech-language pathology majors.

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# The College of Education and Educational Technology

## C. Rehabilitation

Completion of this program leads to the Bachelor of Science with a specialization in rehabilitation. The program is designed for students seeking career opportunities with health and welfare agencies and institutions and also provides a foundation for pursuing additional work at the graduate level.

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# The College of Education and Educational Technology

#### **Bachelor of Science-Rehabilitation**

```
Liberal Studies: As outlined in Liberal Studies section
                                                                             54-55
with the following specifications:
Mathematics: MATH 217
Natural Science: Laboratory Science sequence required
Social Science: PSYC 101, SOC 151
Liberal Studies electives: PSYC 321, no courses with RH prefix
                                                                              48
Required courses:
RHAB 200
            Introduction to Rehabilitation
                                                                    3sh

        RHAB
        211

        RHAB
        220

        RHAB
        312

             Medical Aspects of Rehabilitation
                                                                    3sh
            Neurological Basis of Disability
                                                                    3sh
            Psychological Basis of Disability
                                                                    3sh
<u>RHAB 321</u>
             Principles and Methods of Rehabilitation
RHAB 322
RHAB 360
            Rehabilitation Case Study and Interpretation Rehabilitation Counseling: Strategies
                                                                    3sh
                                                                    3sh
RHAB 410
             Vocational Assessment in Rehab Counseling
                                                                    3sh
RHAB 412
             Occupational Aspects of Rehabilitation
                                                                    3sh
            Current Topics in Rehabilitation
Advanced Rehabilitation Counseling
RHAB 422
RHAB 460
                                                                    3sh
<u>RHAB 484</u>
             Directed Rehabilitation Activities
                                                                    3sh
             Field Training in Rehabilitation I
                                                                    6sh
             Field Training in Rehabilitation II
RHAB 493
                                                                    6sh
                                                                              6-7
Other Requirements:
Required course:
EDEX 111
             Introduction to Exceptional Persons
                                                                   3sh
Controlled elective: (1)
                                                                    3-4sh
BIOL 150, BIOL 151,
                              155, EDEX 340,
                       BIOL
EDEX 416,
            EDEX 417,
                        EDEX 418, EDEX 419,
EDHL 115,
            EDHL 244,
                        EDHL 331, HPED 221,
PSYC 312,
            PSYC 378,
                        SOC 251, SOC 335
Free Electives:
                                                                              14-16
                                                                              124
Total Degree Requirements:
```

(1) Some Controlled elective choices have prerequisites that may be used as free electives.

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# The College of Education and Educational Technology

## **D.** Education of Persons with Hearing Loss

Completion of the sequence of courses in Education of Persons with Hearing Loss leads to a Bachelor of Science degree in Education and Pennsylvania Department of Education certification as a "Teacher of the Hearing Impaired, K-12." Students are provided with the basic skills to teach in special classes for hard-of-hearing or deaf individuals.

Students enrolled in this sequence of study are prepared to assume positions as itinerant hearing therapists and classroom teachers for individuals ranging from preschoolers to adults. Work settings may include public schools, continuing education programs, and home training situations.

Observations, clinical experience, and practicum are required prior to placement in a school environment for the student teaching experience. The student will complete the following 50 hours of observation through enrollment in EDUC 242.

- 25 hours of observation of itinerant and self-contained classrooms for the hearing impaired.
- 10 hours of observation in regular education classrooms.
- 10 hours of observation in special education classrooms.
- 5 hours of observation in a noneducational setting.

The student will complete 30 hours of individual clinical experience through enrollment in <u>EDHL 329</u> and <u>EDHL 330</u> and 25 hours of school-based practicum through enrollment in <u>EDUC 342</u>.

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# The College of Education and Educational Technology

# **Bachelor of Science in Education-Education of Persons with Hearing Loss** (\*)

Liberal Studies: As outlined in Liberal Studies section with the following specifications:  Mathematics: MATH 151 Social Science: PSYC 101 Natural Science: Laboratory Science sequence required Liberal Studies electives: no courses with EDHL prefix		
College: Professional Education sequence: COMM 301 Technology for Learning and Instruction EDHL 360 General Methodology for Persons with Hearing Loss EDSP 202 Educational Psychology EDSP 377 Educational Tests and Measurements EDUC 242 Pre-student Teaching Clinical Experience I EDUC 342 Pre-student Teaching Clinical Experience II EDUC 421 Student Teaching-Hearing Impaired (Pri-Elem) EDUC 441 Student Teaching-Hearing Impaired (Jr-Sr H.S.) EDUC 442 School Law FDED 202 American Education in Theory and Practice	3sh 3sh 3sh (1) 1sh 1sh 6sh 6sh 1sh 3sh	
Major: Required courses:  EDEX 111	3sh 3sh 1sh 1sh 3sh 1sh 1sh 1sh 3sh 3sh 3sh 3sh 3sh 3sh	)
One course from: EDEX 112 or ELED 215 or HMEC 218	3sh	
Free Electives:		
Total Degree Requirements:		124

<sup>(\*)</sup> See requirements leading to teacher certification in the catalog section on Academic Policies, <u>Admission to Teacher Education</u>

<sup>(1)</sup> MATH 217: Probability and Statistics may substitute for EDSP 377 but may not replace MATH 151.

<sup>(2)</sup> A minimum QPA of 2.5 is required to enroll in all 300 and 400 level major courses.

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# The College of Education and Educational Technology

# **Dual Certification-Education of Persons with Hearing Loss for Early Childhood Education Majors**

Students majoring in Early Childhood Education or Elementary Education may complete academic requirements for certification in Education of Persons with Hearing Loss by completing the following requirements. Students are advised that completion of requirements for a second certification will take approximately two extra semesters.

EDHL 114 EDHL 115 EDHL 244 EDHL 307 EDHL 308 EDHL 329 EDHL 330 EDHL 331 EDHL 365 EDUC 342 EDUC 421 SPLP 222 SPLP 311	Introduction to Persons with Hearing Loss Introduction to Sign Language Intermediate Sign Language Speech for Persons with Hearing Loss Language for Persons with Hearing Loss Hearing Practicum I Hearing Practicum II Advanced Sign Language Parent-Preschool Programs for Children with Hearing Loss Pre-student Teaching Clinical Experience II Student Teaching (1) (EH) Introduction to Audiology Aural Rehabilitation	3sh 1sh 1sh 3sh 1sh 1sh 1sh 3sh 3sh 3sh
Recommended EDHL 351 SPLP 242 SPLP 334	delectives: Teaching Reading to Persons with Hearing Loss Speech Science I Language Development	3sh 3sh 3sh

(1) Student Teaching Configuration—In addition to their regular requirement of 12sh in Early Childhood Education, dual certification students must do an extra 6sh placement. The recommended pattern is as follows:

- 6 semester hours in K-3 regular classroom
- 6 semester hours in K-3 classroom with deaf and/or hard-of-hearing pupils included
- 6 semester hours in upper school classroom with deaf and/or hard-of-hearing pupils
- Total = 18 credits inclusive for both certifications

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# The College of Education and Educational Technology

# **Dual Certification-Education of Persons with Hearing Loss for Elementary Education Majors**

Students majoring in Early Childhood Education or Elementary Education may complete academic requirements for certification in Education of Persons with Hearing Loss by completing the following requirements. Students are advised that completion of requirements for a second certification will take approximately two extra semesters.

```
Introduction to Persons with Hearing Loss
                                                                3sh
            Introduction to Sign Language
                                                                1sh
EDHL 244
EDHL 307
            Intermediate Sign Language
                                                                1sh
            Speech for Persons with Hearing Loss
                                                                3sh
EDHL 308
            Language for Persons with Hearing Loss
                                                                3sh
EDHL 329
            Hearing Practicum I
                                                                1sh
EDHL 330
EDHL 331
            Hearing Practicum II
                                                                1sh
            Advanced Sign Language
                                                                1sh
EDHL 351
            Teaching Reading to Persons with Hearing Loss
                                                                3sh
    342
            Pre-student Teaching Clinical Experience II
                                                                1sh
EDUC
EDUC 421
            Student Teaching (1) (EDHL)
                                                                6sh
            Introduction to Audiology
SPLP 222
                                                                3sh
<u>SPLP 311</u>
            Aural Rehabilitation
                                                                3sh
Recommended electives:
SPLP 242
            Speech Science I
                                                                3sh
<u>SPLP 334</u>
            Language Development
                                                                3sh
```

- (1) **Student Teaching Configuration**--In addition to their regular requirement of 12sh in Elementary Education, dual certification students must do an extra 6sh placement. The recommended pattern is as follows:
  - 6 semester hours in a regular elementary classroom
  - 6 semester hours in an elementary classroom with deaf and/or hard-of-hearing pupils included
  - 6 semester hours in upper school classroom with deaf and/or hard-of-hearing pupils
  - Total = 18 credits inclusive for both certifications

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# The College of Fine Arts

The College of Fine Arts has professional programs in art, music, and theater and awards the Bachelor of Arts and Bachelor of Fine Arts degrees. Programs leading to certification to teach are offered in cooperation with the College of Education and Educational Technology and lead to the Bachelor of Science in Education degree. The college offers minors in art, music, theater, and dance.

With one of the largest arts programs in the commonwealth, IUP's College of Fine Arts offers members of both the university and the extended community many opportunities to learn and grow. Dedicated facilities for each department are augmented by a 1,600-seat auditorium, two theaters, two art galleries, a university museum, a recital hall, a computer laboratory, and a dance studio. Typically, the college sponsors two hundred to three hundred arts events annually, and our students, who currently enjoy the strongest academic profile of any of the university's colleges, have opportunities to develop their talents locally, regionally, nationally, and internationally through a variety of longestablished field-based programs.

There are no additional college requirements for graduation beyond the university and departmental requirements listed in other sections of this catalog.

#### **Mission Statement**

The mission of the College of Fine Arts at IUP is to provide excellent programs of study for all of its majors, balancing high professional standards with rigorous and current educational practice, and to provide coursework and programs of an equally high standard in service to majors in other departments which may require arts classes and, as part of the university's general studies mandate, to the entire university student body.

The College of Fine Arts takes as its special mission the presentation of arts events including plays, concerts, exhibitions, and recitals, featuring the work of our students and faculty as well as the work of visiting arts professionals, as a gift of enrichment and as a celebration of the human spirit for the university, the community, and the region.

Finally, the college takes as its mandate and its privilege the inclusion in its presentations, studios, and classrooms the works, thoughts, and performances of a culturally and ethnically diverse world of art.

#### College Majors

Art (History or Studio Track)

Art Education

Interdisciplinary Fine Arts

Music (History and Literature, Performance, or Theory and Composition Track)

Music Education

Music Performance

Studio

Theater

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# The College of Fine Arts

# **Interdisciplinary Fine Arts Major**

An interdisciplinary fine arts major program is available for those students desiring to take coursework in art, dance, interior design, media, music, and theater. This program is offered in conjunction with the College of Education and Educational Technology and the College of Health and Human Services. This interdisciplinary program, including an opportunity for an internship (<u>FIAR493</u>), is coordinated through the Office of the Dean, College of Fine Arts, where additional information is available.

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# The College of Fine Arts

# **Bachelor of Arts-Interdisciplinary Fine Arts**

Liberal Studies: As outlined in Liberal Studies section 53-55 with the following specifications: Liberal Studies electives: no courses with FA prefix

Major: 36

Required courses:

Courses must come from three departments, one of which must come from the College of Fine Arts.

Controlled electives:

Art: Art Education (ARED), Art History (ARHI), Art Studio (ART)
Music: Applied Music (APMU), Music History (MUHI), or Music (MUSC)
Theater: Any Theater (THTR) courses
Dance: Any Dance (THTR) courses

Communications Media: Any communications media courses (COMM)

Human Development/Environmental Studies: Interior Design (INDS),

Fashion Merchandising (FSMR)

Other Requirements:

At least one-third (12) of the major credits must be in courses numbered in the 300s and 400s. No course that is used to fulfill Liberal Studies requirements may be used again to meet major requirements.

Free Electives: 33-35

Total Degree Requirements: 124

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# The College of Fine Arts

## **Department of Art**

Vaughn H. Clay, Chairperson; Ali, Ben-Zvi, Boerner, Burwell, Ciganko, DeFurio, Gillham, Hanson, Hedman, LaRoche, Mitchell, Nestor, Palmisano, Sherburne, Villalobos, Weiland; and professors emeriti Balsiger, Battaglini, Dongilla, Dropcho, Hamilton, Innes, McVitty, Seelhorst, Slenker, Vislosky, Wert

The Department of Art provides both general and special courses in art, directed toward the development of the student's creative and expressive abilities. Degrees offered are the Bachelor of Arts with tracks in either Art History or Art Studio, the Bachelor of Fine Arts in Art Studio, and the Bachelor of Science in Education in Art Education. The degree in art education provides certification for teaching art in grades K-12 in the schools of Pennsylvania.

The Department of Art offers a cooperative program with the Art Institute of Pittsburgh. Students interested in commercial art, with departmental approval, may earn credit toward their major at the Art Institute.

All art majors are obligated to fulfill the university requirements for Liberal Studies. Art Education majors must maintain a 2.5 cumulative GPA, and this is a prerequisite to student teaching.

An exchange program exists between the IUP Department of Art and the National Art Academies of Slovenia and Croatia. Qualified and highly skilled juniors, first-semester seniors, and graduate students may gain participation through screening and professor nomination.

A minor in art is available, consisting of at least 18 semester hours in art courses approved by the chairperson of the Department of Art.

Acceptance by the Department of Art as a major requires the submission of a portfolio and approval of the portfolio committee. Detailed information will be sent to the applicant upon request.

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# The College of Fine Arts

# **Bachelor of Arts-Art/History Track**

Liberal Studies: As outlined in with the following specifications Fine Arts: MUHI 101 or THTR 101 Liberal Studies electives: no cou	; <b>:</b>		53-55
Major: Foundation required:  ART 100 Arts of the 200 ART 111 Figure Drawing ART 112 Fundamentals of ART 113 Three-Dimension ART 114 Color and Two-Day ART 114	Drawing		15 3sh 3sh 3sh 3sh 3sh
Art History required:  ARHI 205 ARCIENT TO Medieval Ar ARHI 211 ARHI 211 ARHI 212 Art in America ARHI 407 ARHI 408 ARHI 409 Baroque and Rococo Art ARHI 412 Classical Art ARHI 413 Senior Seminar (To be taken during sea	e Art  t enior year)	3sh 3sh 3sh 3sh 3sh 3sh 3sh 3sh	30
Free Electives: (1)  ARHI 406 Ancient Migratory Art ARHI 424 Art of the East ARHI 426 ARHI 493 Internship		3sh 3sh 3sh 3-12sh	24-26

(1) It is recommended that the student of art history make judicious choices of elective courses in consultation with the major advisor. Students may consider additional foundation or advanced studio electives, advanced art history, and related academic electives. Course selection in a foreign language is strongly recommended.

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Total Degree Requirements:

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# The College of Fine Arts

## **Bachelor of Arts-Art/Studio**

Liberal Studies: As outlined in Liberal Studies section with the following specifications:  Fine Arts: Fulfilled by Art History (ARHI 205) counted Liberal Studies electives: ARHI 206; no courses with AF	in majo	
Major: Foundation required:  ART 100 Arts of the 20th Century ART 111 Figure Drawing ART 112 Fundamentals of Drawing ART 113 Three-Dimension Design ART 114 Color and Two-Dimensional Design		3sh 3sh 3sh 3sh 3sh 3sh
Foundation electives: (Select 5 of the following 8 courses)  ART 211 ART 213 ART 214 Ceramics ART 215 ART 216 ART 216 ART 217 ART 218 ART 218 ART 218 ART 219 Fibers		3sh 3sh 3sh 3sh 3sh 3sh 3sh 3sh
Art History required:  ARHI 205 Ancient to Medieval Art  ARHI 206 Renaissance to Baroque Art  ARHI 211 Modern Art  ARHI 413 Senior Seminar  (To be taken during senior year)	3sh(1) 3sh(2) 3sh(3)	9
Advanced Studio required: (4) Advanced Studio courses to be selected from list: ART 421, ART 451, ART 452, ART 453, ART 454, ART 455, ART 457, ART 459, ART 460, ART 481, ART 493 (5)		21
Free Electives:		12-14
Total Degree Requirements:		124

- (1) Credits counted in Liberal Studies Fine Arts requirement.
- (2) Credits counted under Liberal Studies electives.
- (3) ARHI 222 may be substituted for ARHI 211.
- (4) Students must complete 3sh within an advanced studio before permission will be granted to enroll in the 6sh component of the advanced level. Permission of the instructor is a prerequisite to all 6sh advanced studios.
- (5) Inclusion of internship semester hours toward any portion of fulfillment of degree requirements must be approved by the departmental chair and student's major advisor. Approval must be obtained in writing prior to enrollment.

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# The College of Fine Arts

#### **Bachelor of Fine Arts-Studio**

Liberal Studies: As outlined in Liberal Studies section with the following specifications:  Fine Arts: Fulfilled by Art History (ARHI 205) counted Liberal Studies electives: ARHI 206, no courses with	ed in majo	<b>50-52</b> or ive
Major: Foundation required: ART 100 Arts of the 20th Century ART 111 Figure Drawing ART 112 Fundamentals of Drawing ART 113 Three-Dimension Design ART 114 Color and Two-Dimensional Design	3sh 3sh 3sh 3sh 3sh	15
Foundation electives: (Select 5 of the following 8 courses)  ART 211 Painting ART 213 Woodworking: Function and Form ART 214 Ceramics ART 215 Sculpture ART 216 Basic Metals ART 217 Printmaking ART 218 Graphic Design ART 219 Fibers	3sh 3sh 3sh 3sh 3sh 3sh 3sh	15
Art History required:  ARHI 205 Ancient to Medieval Art  ARHI 206 Renaissance to Baroque Art  ARHI 211 Modern Art  ARHI 413 Senior Seminar	3sh (1) 3sh (2) 3sh (3) 3sh	
Advanced Studio required: (4) Primary Advanced Studio Concentration Minor Advanced Studio Concentration Courses from list: ART 421, ART 451, ART 452, ART 453, ART 454, ART 455, ART 457, ART 459, ART 460, ART 481, ART 493 (5)	18sh	27
Free electives:		6-8
(#) Total Degree Requirements:		124-126

- (1) Credits counted in Liberal Studies Fine Arts requirement.
- (2) Credits counted under Liberal Studies electives.
- (3) ARHI 222 may be substituted for ARHI 211.
- (4) The foundation-level course must be successfully completed before a student will be permitted to enroll in the 6sh component of that specific studio course. Permission of the instructor is a prerequisite to all 6sh advanced studios.
- (5) Inclusion of internship semester hours toward any portion of fulfillment of degree requirements must be approved by the departmental chair and student's major advisor. Approval must be obtained in writing prior to enrollment.
- (#) See advisory paragraph <u>Timely Completion of Degree Requirements</u> in catalog section on Requirements for Graduation.



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# The College of Fine Arts

### **Bachelor of Science in Education-Art Education (\*)**

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Fine Arts: Fulfilled by Art History counted in major. Social Science: PC101 Liberal Studies electives: AH206, no courses with AR p		50-52
College: Professional Education sequence: (1)  COMM 301 Technology for Learning and Instruction EDSP 202 Educational Psychology EDUC 242 Pre-student Teaching Clinical Experience I EDUC 342 Pre-student Teaching Clinical Experience II EDUC 421 Student Teaching Elementary EDUC 441 Student Teaching Secondary EDUC 442 School Law FDED 202 American Education in Theory and Practice	1sh 1sh 6sh 6sh 1sh 3sh	24 3sh 3sh
Major: Foundation required:  ART 100 Arts of the 20th Century  ART 111 Figure Drawing  ART 112 Fundamentals of Drawing  ART 113 Three-Dimension Design  ART 114 Color and Two-Dimensional Design	3sh 3sh 3sh 3sh 3sh	15
Foundation electives: (Select 5 of the following 8 courses)  ART 211 Painting ART 213 Woodworking: Function and Form ART 214 Ceramics ART 215 Sculpture ART 216 Basic Metals ART 217 Printmaking ART 218 Graphic Design ART 219 Fibers	3sh 3sh 3sh 3sh 3sh 3sh 3sh	15
Art Education required:  ARED 315 Survey in Art Education  ARED 317 Art Education Methodology: Elementary  ARED 318 Art Education Methodology: Secondary	3sh 3sh 3sh	9
Art History required:  ARHI 205 Ancient to Medieval Art  ARHI 206 Renaissance to Baroque Art  ARHI 211 Modern Art  ARHI 413 Senior Seminar	3sh (2) *sh (3) 3sh (4) 3sh	
Controlled electives: Additional courses from lists: (5) Advanced Studio: ART 421, ART 451, ART 452, ART 453, ART 454, ART 455, ART 457, ART 459, ART 460 Advanced Art History: AH219, ARHI 222, ARHI 406, ARHI 408, ARHI 409, ARHI 412, ARHI 416, ARHI 424, ARHI Art Education elective: ARED 330	426	12
Free Electives:		0

- (\*) See requirements leading to teacher certification in the catalog section on Academic Policies, <u>Admission to Teacher Education</u>
- (1) Special Education Competency Requirement: Revision pending will eliminate exam option and will require <u>EDEX</u> 301 (2sh).
- (2) Credits counted in Liberal Studies Fine Arts requirement.
- (3) Credits counted under Liberal Studies electives.
- (4) ARHI 222 may be substituted for ARHI 211.
- (5) Courses can only be taken following successful completion of the foundation prerequisite course.
- (#) See advisory paragraph <u>Timely Completion of Degree Requirements</u> in catalog section on Requirements for Graduation.

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# The College of Fine Arts

### **Department of Music**

Lorraine P. Wilson, Chairperson; Bird, Casavant, Chepaitis, Dearing, Dickinson, Dietz, Eisensmith, Fry, Godt, Kauffman, Kuehn, Lloyd, Mantel, McBride, Olmstead, Perlongo, Radell, Sartori, Scandrett, Stamp, Staples, Thorell, Wheatley, Worzbyt, Wulfhorst, Young; and professors emeriti Adams, Becker, Borst, DiCicco, Intili, Malitsky, Perkins, Vansteenkist, Weber

The Department of Music has a threefold mission: (1) professional preparation of music educators and performers, (2) liberal studies for the university, and (3) programs of music for the community. Degrees offered include the Bachelor of Arts, Bachelor of Fine Arts, and Bachelor of Science in Education.

Admission to the Music Department requires satisfactory completion of an audition in addition to the university general requirements. Detailed information will be sent to the applicant upon request.

A student wishing to minor in music must elect a minimum of 15 semester hours in music courses as approved by the department chairperson. The program leading to the Bachelor of Arts in Music has been designed to give the student a general experience in music. The student seeking this degree has the choice of three tracks: Music History/Literature, Music Theory/Composition, or Performance.

The program leading to the Bachelor of Fine Arts in Music (equivalent to the Bachelor of Music Degree) is a special program with a major in one of twenty-one areas of performance. The student in this program prepares to pursue a career as a professional performing musician.

The program leading to the Bachelor of Science in Education with a music major leads to certification to teach in the schools of Pennsylvania.

#### **Special Requirements**

- 1. Each student must declare a primary performing medium. Those who elect voice as their primary instrument normally elect piano as a secondary instrument. Performance juries are held at the end of each semester. Students are expected to complete the requirements for their performing area and level. Piano proficiency is required in all degree programs.
- 2. Ensemble participation of 5 hours a week is required each semester. Students may fulfill this departmental requirement by participation in either 1-semester-hour or 0-semester-hour ensemble(s). In meeting the degree requirements of 7-8 semester hours of ensemble credit, enrollment in credit-bearing ensembles is flexible across semesters.
- 3. Students must register for MU475 (Music Lab) and attend (1) all department and area recitals and (2) eight campus recitals and concerts each semester.

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# The College of Fine Arts

### **Bachelor of Arts-Music/History and Literature Track**

```
Liberal Studies: As outlined in Liberal Studies section
                                                                            53-55
with the following specifications: Mathematics: MATH 101 recommended
Fine Arts: MUHI 101
Liberal Studies electives: HIST 305, no courses with MUHI prefix
Major:
Required courses:
MUHI 301
            Music History I
                                                                    3sh
MUHI 302
             Music History II
                                                                    3sh
MUSC 111
MUSC 112
             Theory Skills I
                                                                    2sh
             Theory Skills II
                                                                   2sh
MUSC 115
             Theory I
                                                                    3sh
MUSC 116
MUSC 211
             Theory II
                                                                    3sh
             Theory Skills III
Theory Skills IV
                                                                    2sh
MUSC 212
                                                                   2sh
MUSC 215
             Theory III
                                                                    3sh
             Theory IV
                                                                    3sh
Controlled electives:
                                                                         15sh
Five courses from this list:
MUHI 320, MUHI 321, MUHI 322, MUHI 323, MUHI 324, MUHI 325, MUHI 326, MUHI 420, MUHI 421
                                                                             15
Other Requirements:
Music Ensembles (MUSC 120-MUSC 136)
                                                                    8sh
Music Electives
                                                                    7sh
Jury Clearance in piano C
                                                                    0sh
Attendance at 8 recitals per semester
                                                           0sh
(<u>MUSC 475</u>, S grade, 8 semesters)
                                                                             13-15
Free Electives:
                                                                             124
Total Degree Requirements:
```

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# The College of Fine Arts

### **Bachelor of Arts-Music/Music Performance Track**

Liberal Studies: As outlined in Liberal Studies section

with the following specifications:  Mathematics: MATH 101 recommended  Fine Arts: MUHI 101	
Liberal Studies electives: <u>HIST 305</u> , <u>MUHI 301</u> , no cour	rses with MUSC prefix
Major: Required courses:  MUSC 111	2sh 2sh 3sh 3sh 2sh 2sh 3sh 3sh
Controlled electives: Applied Music I thru VIII: private lessons in performance area-2sh each of eight semesters	16sh
Major related: MUHI 103 Perspectives in Jazz MUHI 302 Music History II	3sh 3sh
Other Requirements: Music ensembles (MUSC 120-MUSC 136) Music electives, with advisor approval Jury clearance in major instrument, minor instrument	14 8sh 6sh
(if any), and piano (if not major or minor instrument) Attendance at 8 recitals per semester (MUSC 475, S grade, 8 semesters)	0sh 0sh
Free Electives:	13-15
Total Degree Requirements:	124

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# The College of Fine Arts

### **Bachelor of Arts-Music/Theory and Composition Track**

```
Liberal Studies: As outlined in Liberal Studies section
with the following specifications: Mathematics: MATH 101 recommended
Fine Arts: MUHI 101
Liberal Studies electives: HIST 305, MUHI 301, no courses with MUSC prefix
Major:
Required courses:
            Theory Skills I
MUSC 111
                                                                   2sh
MUSC 112
             Theory Skills II
                                                                   2sh
MUSC 112
MUSC 115
MUSC 116
MUSC 211
MUSC 212
MUSC 215
             Theory I
                                                                   3sh
             Theory II
                                                                   3sh
             Theory Skills III
                                                                   2sh
             Theory Skills IV
                                                                   2sh
             Theory III
Theory IV
                                                                   3sh
MUSC 216
                                                                   3sh
MUSC 217
MUSC 218
MUSC 306
             Keyboard Harmony I
                                                                   1sh
            Keyboard Harmony II
                                                                   1sh
             Counterpoint I
                                                                   2sh
MUSC 315
             Theory V
                                                                   3sh
MUSC 411
MUSC 412
             Composition I
                                                                   2sh
             Composition II
                                                                   2sh
MUSC 413
                                                                   2sh
             Composition III
MUSC 414
             Composition IV
                                                                   2sh
Controlled electives:
One from list: MUSC 304, MUSC 307, MUSC 309
                                                                   2sh
Applied Music I-VII: Private lessons in performance
area-2sh each of seven semesters
                                                                   14sh
Major related:
MUHI 302
            Music History II
                                                                   3sh
Other Requirements:
                                                                            8
Music ensembles (<u>MUSC 120</u>-<u>MUSC 136</u>)
                                                                   8sh
Jury clearance in major instrument, minor instrument
(if any), and piano B
                                                                   0sh
Attendance at 8 recitals per semester
(MUSC 475, S grade, 8 semesters)
                                                           0sh
                                                                             7-9
Free Electives:
Total Degree Requirements:
                                                                            124
```

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### The College of Fine Arts

#### **Bachelor of Fine Arts-Music Performance**

```
Liberal Studies: As outlined in Liberal Studies section
                                                                       53-55
with the following specifications: Mathematics: MATH 101 recommended
Fine Arts: MUHI 101
Liberal Studies electives: HIST 305, MUHI 301, no courses with MUSC prefix
Major:
Required courses:
            Theory Skills I
MUSC 111
                                                               2sh
MUSC 112
            Theory Skills II
                                                               2sh
MUSC 115
MUSC 116
            Theory I
                                                               3sh
            Theory II
                                                               3sh
MUSC 211
            Theory Skills III
                                                               2sh
MUSC 212
MUSC 215
            Theory Skills IV
                                                               2sh
            Theory III
Theory IV
                                                               3sh
MUSC 216
                                                               3sh
Controlled electives:
Applied Music I thru VIII: private lessons in
performance area-4 sh each of 8 semesters
                                                               32sh
Major related:
<u>MUHI 302</u>
           Music History II
                                                               3sh
Other Requirements:
                                                                        20
Music ensembles (MUSC 120-MUSC 136)
                                                               8sh
Music electives
                                                               12sh (1)
Jury clearance in major instrument, minor instrument
(if any), and piano C (unless major or minor)
                                                               0sh
Attendance at 8 recitals per semester
                                                       0sh
(<u>MUSC 475</u>, S grade, 8 semesters)
Junior and Senior Recitals
                                                               0sh
Free Electives:
                                                                        0
(#) Total Degree Requirements:
                                                                        128-130
```

- (1) Majors with piano or organ performance specialization must elect MUSC 217 and MUSC 218, 1sh each.
- (#) See advisory paragraph <u>Timely Completion of Degree Requirements</u> in catalog section on Requirements for Graduation.

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# The College of Fine Arts

### **Bachelor of Science in Education-Music Education (\*)**

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 101 recommended Fine Arts: MUHI 101 Social Science: PSYC 101 Liberal Studies electives: BEDU 101/COSC 101/IFMG 101, MUHI 301, no courses with MUSC prefix		
College: Professional Education sequence:  EDEX 301 Education of Students with Disabilities in Inclusive Secondary Settings  EDSP 202 Educational Psychology EDUC 242 Pre-student Teaching Clinical Experience I EDUC 342 Pre-student Teaching Clinical Experience II EDUC 421 Student Teaching Elementary Level EDUC 441 Student Teaching Secondary Level EDUC 442 School Law FDED 202 American Education in Theory and Practice MUSC 240 Technology in the Music Classroom MUSC 331 Elementary Methods MUSC 333 Secondary Methods	2sh 3sh 1sh 1sh 6sh 6sh 1sh 3sh 3sh 3sh	31
Major: Required courses:  MUSC 111    Theory Skills I MUSC 112    Theory Skills II MUSC 115    Theory I MUSC 116    Theory II MUSC 151    Class Voice I MUSC 152    Class Voice II MUSC 153    Class Piano I MUSC 154    Class Piano II MUSC 155    Class Strings I MUSC 157    Class Percussion I MUSC 159    Class Brass I MUSC 159    Class Woodwinds I MUSC 211    Theory Skills III MUSC 212    Theory Skills IV MUSC 215    Theory III MUSC 216    Theory IV MUSC 311    Fundamentals of Conducting	2sh 2sh 3sh 3sh 2sh (1) 2sh (2) 2sh (2) 1sh 1sh 1sh 2sh 2sh 3sh 3sh 2sh	49
Controlled electives:  One from list: MUSC 312 or MUSC 313  Applied Music I thru VII:private lesson in performance area-2sh each of seven semesters  Major related:  MUHI 302 Music History II  Other Requirements:  Music Ensembles (MUSC 120-MUSC 136)  Jury clearance in major instrument, minor instrument (if any) and piano C (unless major or minor)  Attendance at 8 recitals per semester  (MUSC 475, S grade, 7 semesters) Osh	2sh 14sh 3sh 7sh 0sh	7
Free Electives:		0

- (\*) See requirements leading to teacher certification in the catalog section on Academic Policies, <u>Admission to Teacher Education in the College of Education and Educational Technology section of this catalog.</u>
- (1) For majors with voice as performance specialization, any three of the following may be substituted: <u>MUSC 351</u>, <u>MUSC 353</u>, <u>MUSC 354</u>, <u>MUSC 406</u>
- (2) Private Piano I and II (<u>APMU 101</u>, <u>APMU 151</u>) may be substituted.
- (#) See advisory paragraph <u>Timely Completion of Degree Requirements</u> in catalog section on Requirements for Graduation.

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# The College of Fine Arts

### **Department of Theater**

Barbara S. Blackledge, Chairperson; Ault, Boda, Bowes, Jones, McCreary, Simpson, J. Van Dyke, Wheat; and professors emeriti Eisen, Lommock

The Department of Theater and Dance is dedicated to both theater and dance as collaborative and highly disciplined fine arts which demand an education that offers an extended view of the world as a part of a liberal and humanistic education. Successful students develop an artistic sensibility and a disciplined work ethic, skills necessary in most endeavors. The department is committed to:

- 1. providing comprehensive coursework from introductory through advanced levels of study, in all major areas of theater and dance
- 2. providing diverse production opportunities at all levels to develop students as artists by developing proficiency in one or more of the areas of playwriting, research, performance, and production while stimulating the intellectual growth of both students and faculty
- 3. augmenting and complementing the aesthetic offerings of the university community
- 4. establishing a work ethic of collaboration, personal discipline, and respect

The Department of Theater and Dance offers a Bachelor of Arts degree, a dance minor, and a theater minor. The B.A. in Theater provides for the study of theater within a broad liberal arts education. The minor in dance totals 18 controlled semester hours, while a minor in theater consists of 15 semester hours in coursework approved by the chairperson of the department. Theater and dance courses are also an option in the Interdisciplinary Fine Arts degree offered by the College of Fine Arts.

As a practical extension of the academic program, the Department of Theater and Dance offers a variety of production opportunities in the Theater-by-the-Grove Mainstage and Studio theaters. The IUP Dance Theater performs twice annually, and the department has a professional theater company, Summer Theater-by-the-Grove, to offer students summer options.

Admission to the Theater program requires satisfactory completion of an audition or interview, in addition to the university's general admission requirements. Detailed information will be sent to applicants upon request.

The Department of Theater is an accredited institutional member of the National Association of Schools of Theater (NAST).

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# The College of Fine Arts

### **Bachelor of Arts-Theater**

with the f	rudies: As outlined in Liberal Studies section following specifications:  ARHI 101, MUHI 101, or THTR 102  Rudies electives: no courses with THTR prefix		53-55	
Major: Required of THTR 110 THTR 116 THTR 201 THTR 301 or THTR 302 THTR 310	Script Analysis Fundamentals of Theatrical Design	3sh 3sh 3sh 3sh 3sh 3sh	36	
Any three THTR 120 THTR 122 THTR 221 THTR 223	of the following: Stagecraft I Costume Workshop Basic Stage Lighting Makeup for the Stage  of the following:	3sh 3sh 3sh 3sh		
	Stage Voice Stage Movement  Fundamentals of Dance Acting I Directing	3sh 3sh 3sh 3sh 3sh		
Other Requ	rirements: Practicum for Production of six semesters)	4sh	4 29-31	
Total Degr	ree Requirements:		124	

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# The College of Fine Arts

### **Dance Minor (1)**

The Dance Minor program provides a foundation for those interested in teaching dance, working with a dance company, managing a private dance studio, working with theater productions, or desiring a broad-based education within the dance discipline.

The Dance Minor is an 18 semester-hour program with 9 required semester hours and 9 elective semester hours. The required semester hours include the pertinent foundation courses and higher-level theory courses. The required courses also provide design elements of production, fundamental and historical theories of dance, and dance choreographic and teaching theories that cannot be obtained in any of the elective courses. The elective semester hours include the technique courses.

The Dance Minor is based on the National Standards for Arts Education dance requirements. Using this basis for the program ensures fundamental preparation for a number of student needs, for example: the dance teacher, the performer, and/or the dance studio owner.

The program is also designed to fulfill the needs of a Liberal Arts minor in dance. Through advisement, the minor program can serve the individual student's needs. The program would be of interest to secondary and elementary education majors, small business majors, recreation and physical education majors, and anyone else who has an interest in dance and wants to broaden his or her Liberal Arts education.

Required Courses: THTR 116 Fundamentals of Theatrical Design	<b>9</b> 3sh
One of the following: THTR 102 Introduction to Dance THTR 150 Fundamentals of Dance	3sh 3sh
One of the following: THTR 351 Choreography THTR 353 Dance Curriculum and Instruction	3sh 3sh
Any three of the following as advised:  THTR 150 THTR 250 Contemporary Dance THTR 260 Jazz Dance THTR 270 Ballroom and Tap Dance THTR 280 Ballet THTR 290 THTR 485 Dance Studio	9 3sh 3sh 3sh 3sh 3sh 3sh 3sh

Total credits:

18

(1) The Dance Minor consists of eighteen credits. Fundamentals of Dance cannot be counted twice.

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# The College of Health and Human Services

The College of Health and Human Services comprises eight multifaceted departments which offer programs leading to seventeen baccalaureate degrees and five master's degrees, three minors, two credit-bearing certificate programs, and one noncredit certificate program. The departments in the college are Culinary Arts; Food and Nutrition; Health and Physical Education; Hotel, Restaurant, and Institutional Management; Human Development and Environmental Studies; Industrial and Labor Relations; Nursing and Allied Health Professions; and Safety Sciences.

The college offers degrees in areas relevant to workforce needs and prides itself on having established a learning-centered environment in which the curricula bridge theory and practice. Hands-on fieldwork, observations, clinical experiences, internships, co-operative education, and service-learning opportunities are regular components of the curricula and provide valuable learning experiences for students. Instructional methods are often cooperative and collaborative, affording students the opportunity to understand what they can contribute to and gain from collective efforts. Discovery-based instruction provides opportunities to learn about a discipline by practicing in the field. Media technology, an ever-expanding resource, provides access to worldwide information. Faculty members recognize the central role of the learner in the learning process and strive to create integrated, holistic learning environments. The focus on learning is a commitment to the continuous improvement of the quality of education offered by the college.

The College of Health and Human Services is committed to providing students with challenging academic programs designed to enhance achievement of educational and professional goals, to develop appropriate skills and attitudes for future employment, to develop critical thinking skills, and to promote synthesis of knowledge. Students are encouraged to develop an understanding of and respect for individuals from diverse backgrounds and cultures.

#### **College Majors**

Child Development/Family Relations

**Consumer Affairs** 

Consumer Services/Community Services Track

Culinary Arts (nondegree Certificate program)

**Dietetics** 

Family and Consumer Sciences Education

Fashion Merchandising

Food and Nutrition Science

Health and Physical Education

Hotel, Restaurant, Institutional Management

Industrial and Labor Relations (graduate program only)

Interior Design

Medical Technology

Nuclear Medicine Technology

Nursing

Physical Education and Sport

Respiratory Care

Safety Sciences

#### **College Minors**

Child Development

Nutrition Safety Sciences

#### **Credit Certificate Programs**

Driver Education Gerontology

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# College of Health and Human Services

### **Department of Culinary Arts**

Albert Wutsch, Chairperson; Blake, DeMane, Brown, Fitting, Klinger, Pike, Wygonik

The Department of Culinary Arts offers a four-semester (sixteen calendar months), competency-based, noncredit certificate program. This distinctive program provides hands-on learning experiences, including fundamental culinary theory and on-the-job work experience, giving each student the necessary skills and knowledge to begin a successful career in the field of culinary arts. During the last semester of study, students are placed with a distinguished employer in a prestigious resort or restaurant for a paid externship experience. This contemporary approach to learning enables students to achieve advanced levels of proficiency in both culinary techniques and business management skills while they advance through the certificate program. Through an articulation agreement, graduates may transfer up to 42 semester hours of coursework to the baccalaureate program in Hotel, Restaurant, and Institutional Management. In addition, an optional European Study Tour is offered through which students may earn 3 semester hours.

The Culinary program holds accreditation by the American Culinary Federation Educational Institute.

This program is offered at the Academy of Culinary Arts in Punxsutawney, Pennsylvania.

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# The College of Health and Human Services

### **Department of Food and Nutrition**

Joanne B. Steiner, Chairperson; Barker, Cessna, Dahlheimer, Johnson, Taylor-Davis; and professor emerita Minnick

The Food and Nutrition Department offers a degree program in nutrition with two tracks, dietetics and general nutrition. Within the degree program, students will also select a natural science option dependent upon their academic preparation and career goals. This curriculum prepares students as professionals for a diversity of career opportunities in health care, food service, the food industry, and food and nutrition research.

In addition, the department provides Liberal Studies courses which are available to all university students. These include <u>FDNT 143</u>, an option in the university's Liberal Studies requirements for Health and Wellness; <u>FDNT 145</u>, a Liberal Studies elective; and <u>LBST 499</u>: Food and Culture, a synthesis course.

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# The College of Health and Human Services

### **Dietetics**

Students who complete the Dietetics Track (Didactic Program in Dietetics, [DPD]) meet the academic requirements as developmentally accredited by the Commission on Accreditation for Dietetics Education of the American Dietetic Association. This track will prepare an individual to serve as a translator of food and nutrition science information for members of the larger community with respect to healthful food preparation, healthy eating behaviors, medical nutrition therapy, management of nutrition delivery and food service systems, and advocacy for the profession of dietetics. The individual who completes this program will exhibit an in-depth knowledge of food, nutrition, behavioral sciences, and management theory. The student will also be able to apply this knowledge to solve problems.

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# The College of Health and Human Services

### **Bachelor of Science-Nutrition/Dietetics Track** (@)

```
Liberal Studies: As outlined in Liberal Studies section
                                                                           54
with the following specifications:
Health and Wellness: HPED 143
Mathematics: MATH 217
Natural Science: CHEM 101-CHEM 102 or CHEM 111-CHEM 112
Social Science: ECON 101 or ECON 121, PSYC 101, SOC 151
Liberal Studies electives: BEDU 101/COSC 101/IM101; HMEC 218
or PSYC 310, no courses with FDNT prefix
Major:
Food and Nutrition Core:
                                                                            25
FDNT 110
FDNT 150
                 Careers in Food and Nutrition
                                                             1sh
                 Foods
                                                             3sh
<u>FDNT 151</u>
                 Foods Laboratory
                                                             1sh
FDNT 212
FDNT 213
                 Nutrition
                                                             3sh
                 Life Cycle Nutrition
                                                             3sh
FDNT 355
                Nutrition in Disease I
FDNT 362
FDNT 458
                Experimental Foods
                                                             3sh
                 Advanced Human Nutrition
                                                             4sh
FDNT 470
                 Human Food Consumption Patterns
                                                             3sh
FDNT 484
                 Senior Seminar
                                                                            28
Controlled Electives:
Dietetics Track:
FDNT 364
                 Methods of Teaching
                                                             3sh
FDNT 402
                 Community Nutrition
                                                             3sh
FDNT 430
                 Professional Topics in Food
                 and Nutrition
                                                             3sh
                Nutrition in Disease II
                                                             3sh
FDNT 463
HRIM 259
                Nutrition Counseling
                                                             3sh
                 Hospitality Purchasing
                                                             3sh
HRIM 313
                 Food Systems I
                                                             4sh
<u>HRIM 356</u>
                 Human Resources in Hospitality Industry 3sh
                 Principles of Management
Other Requirements:
                                                                     13 or 21
Natural Science Sequence: One option required:
Natural Sciences Option I:
BIOL 105, 155, 232, CHE Natural Sciences Option II: (1)
                                                                  13sh
        BIOL 105, 150, 151, 232, CHEM 231, 351
                                                                    21sh
Free Electives:
                                                                          0 - 4
Total Degree Requirements:
                                                                      124-128
```

- (@) Program revisions pending Council of Trustees approval.
- (1) Provides the student with entrance requirements for graduate education in food and nutrition science.

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# The College of Health and Human Services

### **Nutrition Track**

The Nutrition Track will allow the student to plan a curriculum based upon career goals other than becoming a registered dietitian with the American Dietetic Association. Career opportunities for these students include public health, food service administration, culinary arts, journalism, communications, business, and gerontology.

Students who wish to pursue preparation for master's level education in food and nutrition research, with the selection of the Natural Science Option II plus the nutrition track would acquire a background in the basic sciences that gives a solid foundation for theoretical and applied food science and nutrition. These options meet the needs of students who wish to enter careers in food/nutrition which require a graduate education.

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# The College of Health and Human Services

### **Bachelor of Science-Nutrition/Nutrition Track** (@)

Liberal Studies: As outlined in Liberal Studies see with the following specifications: Health and Wellness: HPED 143 Mathematics: MATH 217 Natural Science: CHEM 101-CHEM 102 or CHEM 111-CHE Social Science: ECON 101 or ECON 121, PSYC 101, SO Liberal Studies electives: BEDU 101/COSC 101/IM101 or PSYC 310, no courses with FDNT prefix	M 112 C 151
Major: Food and Nutrition Core: FDNT 110	25 1sh 3sh 1sh 3sh 3sh 3sh 3sh 3sh 4sh 3sh
Controlled Electives:	10-28
Nutrition Track (non-DPD):  FDNT electives (300 level and above, internship of 3sh strongly recommended)  Program minor, certificate, second major, or core concentration required form program completion (2)	6sh n 4-22sh
Other Requirements:	13 or 21
Natural Science Sequence: One option required: Natural Sciences Option I:	
BIOL 105, 155, 232, CHEM 255 Natural Sciences Option II: (3)	13sh
BIOL 105, 150, 151, 232, CHEM 231, 351	21sh
Free Electives: (3)	0-22
Total Degree Requirements:	124

- (@) Program revisions pending Council of Trustees approval.
- (1) For the Gerontology Certificate, PHIL 405 or 400 or PSYC 378 can be applied as a Liberal Studies Elective. For the Business Administration minor, ECON 122 can be applied as a Liberal Studies Elective.
- (2) Select from list (see catalog for requirements): Business Administration, Chemistry, Communications Media, Culinary Arts, Educational Technology, Gerontology, Journalism, Natural Sciences, Psychology, and Psychology Science
- or Hotel, Restaurant, and Institutions Management (FDNT 150, 151, HRIM 101, 259, 306, 313, 356, 401, HRIM 3sh elective),
- or Physical Education and Sport (HPED 319, 410, 411,
- HPED 481: American College of Sports Medicine, Health Fitness Instructors Workshop, and HPED 343 or 375 or 412)
- (3) Provides the student with entrance requirements for graduate education in food and nutrition science.

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# The College of Health and Human Services

#### **Nutrition Minor**

This minor sequence is recommended for students majoring in the related health disciplines such as child development, family and consumer sciences education, nursing and allied health, food service management, and health and physical education. Students electing a minor in nutrition must complete 15 semester hours of coursework from the courses listed in the requirements for the minor. Students must note that the completion of this minor neither meets the requirements for practice as a credentialed nutritionist nor satisfies the academic requirements of the Commission on Registration for the American Dietetic Association as a registered dietitian. For additional information about these careers, contact the Food and Nutrition Department.

Nutrition Minor		15
FDNT 212	Nutrition	3sh
FDNT 213	Life Cycle Nutrition	3sh
FDNT 245	Sports Nutrition	3sh (1)
<u>FDNT 355</u>	Nutrition in Disease I	3sh
<u>FDNT 470</u>	Human Food Consumption Patterns or	3sh
<u>FDNT 402</u>	Community Nutrition	3sh

(1) Students not interested in <u>FDNT 245</u> could select both <u>FDNT 402</u> and <u>FN470</u> in place of FDNT 245.

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# The College of Health and Human Services

### **Department of Health and Physical Education**

James G. Mill, Chairperson; Bayles, Black, Blacksmith, Blair, Celtnieks, Clark, Cortazzo, Dicicco, Klingaman, McKee, Montgomery, Moore, Rivera, Robinson, Sloniger, Smith, Trenney; and professors emeriti Aierstock, Beck, Clark, Dakak, Davis, Dickie, Eltz, Godlasky, Grove, Hornfeck, Liscinsky, Neal, Sledzik, Sloniger, Sutton, Tucker

The Department of Health and Physical Education provides the following services:

- 1. instruction in health and wellness courses as part of the university's Liberal Studies requirement
- 2. instruction in health and physical education courses as Physical Education course electives
- 3. an undergraduate major in health and physical education that leads to the Bachelor of Science degree in Education with potential certification to teach in the Commonwealth of Pennsylvania
- 4. Bachelor of Science degree in Physical Education and Sport
- 5. endorsement program in Driver Education Safe Living

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# The College of Health and Human Services

### **Required Program-Liberal Studies**

The Department of Health and Physical Education through its Health and Wellness course in the Liberal Studies program seeks to enhance the overall well-being of students through instruction planned to promote and maintain desirable levels of physical, mental, emotional, and social well-being. Self-responsibility in the following dimensions of wellness is emphasized: nutritional awareness, stress awareness and management, exercise and fitness, substance use and abuse, and sexually transmitted diseases/AIDS. The importance of reducing risk factors for chronic degenerative disease and managing lifestyle factors for promotion of health is presented with implication for both the present and future. Information is provided during class lectures and enhanced by a variety of practical learning experiences which give students opportunities for self-assessment and personal application of the subject matter.

In addition, the department offers a variety of 1-semester-hour activity courses focusing on physical fitness and the development of skills essential for recreation and lifetime sports. Instruction is offered in many activities including golf, resistive exercise, scuba, swimming, and tennis.

The university's Liberal Studies requirements, in effect since fall, 1989, require that each student successfully complete HPED 143 or its alternate, FDNT 143. Students may also elect to take 4 semester hours of the ROTC program (MLSC 101-MLSC 102) as an alternate to the wellness courses. Activity courses will continue to be offered, although they are no longer required. It is encouraged and recommended that students choose these courses as elective credits.

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# The College of Health and Human Services

### **Bachelor of Science Degree (Physical Education and Sport)**

The Bachelor of Science degree in Physical Education and Sport provides greater emphasis on subject matter/content and less on pedagogy. Students who select this major generally apply their knowledge in the areas of exercise science, community and corporate fitness, cardiac rehabilitation, sports medicine, and/or executive fitness programming. The sports study major is a non-teacher certification program.

Specialty tracks have been developed for the degree program in physical education and sport. These different tracks provide emphasis in specific subject content areas and teach skills necessary for students to assume leadership roles in careers in the health and fitness industry as well as the sport science industry. These include:

- a. Aquatics
- b. Exercise Science
- c. Sport Administration
- d. Athletic Training

These four tracks, in addition to the Nutrition minor within the Physical Education and Sport major, provide students with an innovative, relevant, and challenging curriculum and at the same time encourage the promotion of interdisciplinary work. Course content is focused toward specific professions within the major, as well as toward different national credentialing possibilities. Student internships and preprofessional experiences can be more appropriately focused to enhance opportunities for postgraduate employment.

Selection of a predetermined number of students to the Athletic Training Track will be based on demonstrated academic achievement and the evaluation of other criteria as listed below. The minimum standards for eligibility are:

1) sophomore status (minimum of 28 semester hours), 2) no less than a 2.6 cumulative GPA, 3) no less than a grade of C in 175, 251, 4) two letters of recommendation, 5) satisfactory completion of 50 hours of directed clinical observation, 6) a written essay, and in some cases, a personal interview. Official admission is also contingent upon obtaining liability insurance, medical clearances, and Acts 34 and 151 clearances, all of which are needed for field experience placement. Once admitted, students must continue to demonstrate above-average academic performance and acceptable clinical performance in order to remain in good standing (specific program retention and completion guidelines will apply and are described in informational/ admissions packet available from the department). Students should obtain an informational and admissions packet from the department for full details. In addition, the Department of Health and Physical Education has developed two programs approved by the National YMCA Physical Education Office to provide for the professional preparation of YMCA aquatic directors and physical directors.

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# The College of Health and Human Services

### **Bachelor of Science-Physical Education and Sport (@)**

Liberal Studies: As outlined in Liberal Studies section with the following specifications:  Mathematics: MATH 217  Health and Wellness: FDNT 143 or MLSC 101-MLSC 102  Natural Science: BIOL 103-BIOL 104 or CHEM 101-CHEM 102			
	<pre>ence: PSYC 101, SOC 151 udies Electives: FDNT 145, BEDU 101/COSC 101 with HPED prefix</pre>	/ <u>IFMG 10</u>	<u>1</u> ,
Major: Core requi: HPED 142  HPED 200 HPED 210 HPED 221 HPED 251  HPED 263	rements: Foundations of Health, Physical Education, and Sport Fundamentals of Physical Activity Motor Development Human Structure and Function Foundations of Safety and Emergency Health Care Aquatics	3sh 1sh 2sh 3sh 3sh	31
HPED 315 HPED 341 HPED 343 HPED 344 HPED 441 HPED 442	Biomechanics Evaluation in Health and Physical Education Physiology of Exercise Adapted Physical Education Psychosocial Implications for Health and Physical Education Seminar in Health, Physical Education, and Recreation I	3sh 3sh 3sh 3sh 3sh 3sh	
Professiona       HPED     175       HPED     319       HPED     375       HPED     410       HPED     411       HPED     412	Prevention and Care of Injuries to the Physically Active Preprofessional Experience II Physiological Basis of Strength Training Exercise Prescription Physical Fitness Appraisal Physical Activity and Stress Management	2sh 1-3sh 3sh 3sh 3sh 3sh	15-17
Controlled HPED 408 HPED 413 HPED 426 HPED 482 HPED 493 BIOL 151 BIOL 155	electives: (1) (2) Guided Research Physical Activity and Aging Health Science Instruction Independent Study Internship Human Physiology Human Physiology and Anatomy	2sh 3sh 3sh 3sh 6-12sh 4sh	6-12
Other Requ	irements:		0
Free Elect	ives:		12-18
Total Degr	ee Requirements:		124

- (@) Program revisions pending IUP Council of Trustees approval.
- (1) Nutrition minor may substitute for Controlled Electives; see Department of Food and Nutrition.
- (2) Specialty tracks will substitute for Controlled Electives; see following descriptions.

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# The College of Health and Human Services

Liberal Studies: As outlined in Liberal Studies section

# **Bachelor of Science-Physical Education and Sport-Exercise Science Track** (@)

54-55

	uales: As outlined in Liberal Studies section		34-33	
with the following specifications:				
Mathematic	s: <u>MATH 217</u>			
Health and	Wellness: FDNT 143 or MLSC 101-MLSC 102			
	ience: BIOL 103-BIOL 104 or CHEM 101-CHEM 10	2		
	ence: PSYC 101, SOC 151			
		/TEMO 10	11	
	udies Electives: FDNT 145, BEDU 101/COSC 101	/ IFMG I	<u>)                                    </u>	
no courses	with HPED prefix			
Major:				
Core requi	rements:		31	
HPED 142	Foundations of Health, Physical Education,			
<u> </u>	and Sport	3sh		
HPED 200	Fundamentals of Physical Activity	1sh		
HPED 200 HPED 210	1 1	2sh		
	Motor Development			
<u>HPED 221</u>	Human Structure and Function	3sh		
<u>HPED 251</u>	Foundations of Safety and Emergency			
	Health Care	3sh		
<u>HPED 263</u>	Aquatics	1sh		
<u>HPED 315</u>	Biomechanics	3sh		
<u>HPED 341</u>	Evaluation in Health and Physical Education	3sh		
<u>HPED 343</u>	Physiology of Exercise	3sh		
HPED 344	Adapted Physical Education	3sh		
HPED 441	Psychosocial Implications for Health			
	and Physical Education	3sh		
HPED 442	Seminar in Health, Physical Education,	3511		
HIBD 112	and Recreation I	3sh		
	and Recreation i	3511		
Cnort Caio	nce Requirements		12-14	
			12-14	
<u>HPED 175</u>	Prevention and Care of Injuries to the	0 1		
	Physically Active	2sh		
<u>HPED 319</u>	Preprofessional Experience II	1-3sh		
HPED 375	Physiological Basis of Strength Training	3sh		
<u> HPED 410</u>	Exercise Prescription	3sh		
<u>HPED 412</u>	Physical Activity and Stress Management	3sh		
Exercise S	cience Track:		14	
BIOL 151	Human Physiology	4sh		
PHYS 151	Medical Physics Lecture	3sh		
PHYS 161	Medical Physics Lab	1sh		
HPED 411	Physical Fitness Appraisal	3sh		
HPED 413	Physical Activity and Aging	3sh		
HEED HIS	rhysical Accivity and Aging	3511		
Free Elect	izoge		8-11	
FICE FIECE	TACO.		0-11	
_				
Total Degr	Total Degree Requirements: 124-125			

(@) Program revisions pending IUP Council of Trustees approval.

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# The College of Health and Human Services

Liberal Studies: As outlined in Liberal Studies section

### **Bachelor of Science-Physical Education and Sport-Sport Administration Track** (@)

54-55

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with the following specifications:
Mathematics: MATH 217
Health and Wellness: FDNT 143 or MLSC 101-MLSC 102
Natural Science: BIOL 103-BIOL 104 or CHEM 101-CHEM 102
Social Science: PSYC 101, EC121
                              BEDU 101/COSC 101/IFMG 101, ECON 122
Liberal Studies Electives:
no courses with HP prefix
                                                                        31
Core requirements:
<u>HPED 142</u>
            Foundations of Health, Physical Education,
            and Sport
                                                               3sh
            Fundamentals of Physical Activity
HPED 210
HPED 221
            Motor Development
                                                               2sh
            Human Structure and Function
                                                               3sh
HPED 251
            Foundations of Safety and Emergency
            Health Care
                                                               3sh
<u>HPED 263</u>
<u>HPED 315</u>
            Aquatics
                                                               1sh
            Biomechanics
                                                               3sh
<u>HPED 341</u>
            Evaluation in Health and Physical Education
HPED 343
HPED 344
            Physiology of Exercise
                                                               3sh
            Adapted Physical Education
                                                               3sh
HPED 441
            Psychosocial Implications for Health
                                                               3sh
            and Physical Education
HPED 442
            Seminar in Health, Physical Education,
                                                               3sh
            and Recreation I
Sport Science Requirements:
                                                                        14-16
<u>HPED 175</u>
            Prevention and Care of Injuries to the
            Physically Active
                                                               2sh
HPED 319
HPED 333
HPED 335
            Preprofessional Experience II
                                                               1-3sh
            Psychology Of Coaching
                                                               2sh
            Coaching and Managing of Athletic Programs
                                                               3sh
<u>HPED 375</u>
            Physiological Basis of Strength Training
                                                               3sh
HPED 412 Physical Activity and Stress or HPED 430 The American Woman and Sport
            Physical Activity and Stress Management
                                                               3sh
                                                                   3sh
Business Minor Requirements:
ACCT 201
ACCT 202
            Accounting Principles I
                                                               3sh
            Accounting Principles II
                                                               3sh
ADMS 321
            Business and Interpersonal Communications
                                                               3sh
BLAW 235
            Introduction to Business Law
                                                               3sh
FIN 310
            Finance I
                                                              3sh
MGMT 310
            Principles of Management
                                                               3sh
MKTG 320
            Principles of Marketing
                                                               3sh
                                                                                2-4
Free Electives:
                                                                          124
Total Degree Requirements:
```

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(@) Program revisions pending IUP Council of Trustees approval.

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# The College of Health and Human Services

Liberal Studies: As outlined in Liberal Studies section

### **Bachelor of Science-Physical Education and Sport-Aquatic Track** (@)

54-55

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with the following specifications:
Mathematics: MATH 217
Health and Wellness: FDNT 143 or MLSC 101-MLSC 102
Natural Science: BIOL 103-BIOL 104 or CHEM 101-CHEM 102
Social Science: PSYC 101, SOC 151
Liberal Studies Electives: FDNT 145, BEDU 101/COSC 101/IFMG 101,
no courses with HPED prefix
                                                                        31
Core requirements:
            Foundations of Health, Physical Education,
<u>HPED 142</u>
            and Sport
                                                               3sh
            Fundamentals of Physical Activity
HPED 210
HPED 221
            Motor Development
                                                               2sh
            Human Structure and Function
                                                               3sh
HPED 251
            Foundations of Safety and Emergency
            Health Care
                                                               3sh
<u>HPED 263</u>
<u>HPED 315</u>
            Aquatics
                                                               1sh
            Biomechanics
                                                               3sh
<u>HPED 341</u>
            Evaluation in Health and Physical Education
<u>HPED 343</u>
            Physiology of Exercise
                                                               3sh
HPED 344
            Adapted Physical Education
HPED 441
            Psychosocial Implications for Health
            and Physical Education
                                                               3sh
HPED 442
            Seminar in Health, Physical Education,
                                                               3sh
            and Recreation I
                                                                        15-17
Sport Science Requirements:
<u>HPED 175</u>
            Prevention and Care of Injuries to the
            Physically Active
                                                               2sh
HPED 319
HPED 375
HPED 410
            Preprofessional Experience II
                                                               1 - 3sh
            Physiological Basis of Strength Training
                                                               3sh
            Exercise Prescription
                                                               3sh
<u>HPED 411</u>
            Physical Fitness Appraisal
HPED 4\overline{12}
            Physical Activity and Stress Management
Aquatic Track:
                                                                           12
<u>HPED 165</u> Lifeguarding
HPED 261
HPED 264
            Water Safety Instructor
                                                               1sh
            Advanced Aquatics
                                                               1sh
HPED 270
            Instructor of Handicapped Swimming
HPED 276
HPED 279
HPED 280
            Coaching of Swimming
                                                               1sh
            Swimming Pool Maintenance and Chemistry
                                                               2sh
            Aquatic Facilities Management
                                                               2sh
<u>HPED 335</u>
            Coaching and Managing of Athletic Programs
                                                               3sh
Free Electives:
                                                                          9-12
                                                                           124
Total Degree Requirements:
(@) Program revisions pending IUP Council of Trustees approval.
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# The College of Health and Human Services

Liberal Studies: As outlined in Liberal Studies section

# **Bachelor of Science-Physical Education and Sport-Athletic Training Track** (@)

54-55

_	ollowing specifications:		
Mathematics Health and			
Natural Sci		2	
Social Scie		<u>-</u>	
	dies Electives: FDNT 145, BEDU 101/COSC 101	/IFMG 10	1,
no courses	with HPED prefix		
_			
Major:			21
Core requir			31
HPED 142	Foundations of Health, Physical Education, and Sport	3sh	
HPED 200	Fundamentals of Physical Activity	1sh	
HPED 210	Motor Development	2sh	
HPED 221	Human Structure and Function	3sh	
<u>HPED 251</u>	Foundations of Safety and Emergency		
HDED 063	Health Care	3sh	
<u>HPED 263</u> HPED 315	Aquatics Biomechanics	1sh 3sh	
HPED 341	Evaluation in Health and Physical Education	3sh	
HPED 343	Physiology of Exercise	3sh	
HPED 344	Adapted Physical Education	3sh	
<u>HPED 441</u>	Psychosocial Implications for Health		
	and Physical Education	3sh	
HPED 442	Seminar in Health, Physical Education,	2 - h	
	and Recreation I	3sh	
Sport Scien	ace Requirements		12
HPED 175	Prevention and Care of Injuries to the		
	Physically Active	2sh	
<u>HPED 345</u>	Athletic Training I	3sh	
HPED 346	Athletic Training Lab	1sh	
<u>HPED 375</u> <u>HPED 411</u>	Physiological Basis of Strength Training	3sh 3sh	
ULED 411	Physical Fitness Appraisal	3811	
Athletic Tr	aining Track		24
BIOL 151	Human Physiology	4sh	
<u>HPED 365</u>	Advanced Athletic Training	4sh	
<u>HPED 376</u>	Athletic Training Clinical Practicum I	1sh	
HPED 377	Athletic Training Clinical Practicum II	1sh	
<u>HPED 446</u> HPED 448	Therapeutic Modalities Therapeutic Exercise for Athletic Injury	4sh	
HFED 440	Management	4sh	
HPED 476	Athletic Training Clinical Practicum III	1sh	
HPED 477	Athletic Training Clinical Practicum IV	1sh	
<u>PHYS 151</u>	Medical Physics Lecture	3sh	
<u>PHYS 161</u>	Medical Physics Lab	1sh	
Aquatic Tra	ck Requirements		12
Free Electi	ves:		2-3
Total Dossa	a Poguirementa.		124
TOTAL Degre	ee Requirements:		124

(@) Program revisions pending IUP Council of Trustees approval.

**Note:** The office of the Athletic Training Curriculum Coordinator can provide additional information related to specific requirements regarding initial health screening, criminal record checks, and liability insurance needs.

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# The College of Health and Human Services

#### **Bachelor of Science in Education (Health and Physical Education)**

Requirements for the degree of Bachelor of Science in Education with a major in Health and Physical Education include the university's Liberal Studies requirements, Professional Education requirements, and the Health and Physical Education core requirement. Upon completion of the degree program and successfully passing the PRAXIS Exam, the student is qualified for an Instructional I Certificate in Health and Physical Education, issued by the Pennsylvania Department of Education in Harrisburg. This certificate is valid for teaching health and physical education in grades K-12 for three years in the public schools of Pennsylvania. All students seeking Pennsylvania certification must follow the 4-Step Process described in the section "Admission to Teacher Education and Certification" found in the College of Education and Educational Technology section of this catalog.

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# The College of Health and Human Services

### **Bachelor of Science in Education-Health and Physical Education (\*)**

with the f Mathematic Health and Natural Sc Social Sci Liberal St	udies: As outlined in Liberal Studies section following specifications:  s: MATH 217  Wellness: FDNT 143 or MLSC 101-MLSC 102 ience: BIOL 103-BIOL 104 or CHEM 101-CHEM 10 ence: PSYC 101, SOC 151 udies electives: FDNT 145, PSYC 378, d alternatives		54
Major:	romonta		31
Core requi	Foundations of Health, Physical Education,		31
<del></del>	and Sport	3sh	
<u>HPED 200</u>	Fundamentals of Physical Activity	1sh	
<u>HPED 210</u>	Motor Development	2sh	
<u>HPED 221</u> HPED 251	Human Structure and Function	3sh	
HPED 231	Foundations of Safety and Emergency Health Care	3sh	
HPED 263	Aquatics	1sh	
HPED 315	Biomechanics	3sh	
HPED 341	Evaluation in Health and Physical Education	3sh	
HPED 343	Physiology of Exercise	3sh	
HPED 344	Adapted Physical Education	3sh	
<u>HPED 441</u>	Psychosocial Implications for Health and Physical Education	3sh	
HPED 442	Seminar in Health, Physical Education,	3511	
	and Recreation I	3sh	
	al requirements Health and Physical Education:		22
<u>HPED 211</u>	Dance, Rhythmic Activities, and Gymnastics	3sh	
<u>HPED 212</u> <u>HPED 213</u>	Team Sports Individual, Dual Sports,	3sh	
ULED 712	and Adventure Activities	3sh	
HPED 318	Preprofessional Experience I	1sh	
HPED 321	Methods for Elementary Health		
	and Physical Education	3sh	
<u>HPED 325</u>	School and Community Health	3sh	
<u>HPED 426</u> HPED 450	Health Science Instruction	3sh	
HPED 450	Curriculum and Programming in Sexuality Education	3sh	
	bendariey hadeacton	5511	
Profession	al Education requirements: (1)		24
<u>COMM 301</u>	Technology for Learning and Instruction	3sh	
EDSP 202	Educational Psychology	3sh	
EDUC 242 EDUC 342	Pre-student Teaching Clinical Experience I	1sh	
EDUC 342 EDUC 421	Pre-student Teaching Clinical Experience II Student Teaching	1sh 6sh	
EDUC 441	Student Teaching	6sh	
EDUC 442	School Law	1sh	
FDED 202	American Education in Theory and Practice	3sh	
Other Requ	irements:		0
			_
Free Elect	ives:		0
(#)Total D	egree Requirements:		131
,			

- (\*) See requirements leading to teacher certification, titled <u>Admission to Teacher Education</u> in the College of Education and Educational Technology section of this catalog.
- (1) Special Education Competency Requirement: Revision pending will eliminate exam option and will require <u>EDEX</u> 301 (2sh).
- (#) See advisory paragraph <u>Timely Completion of Degree Requirements</u> in catalog section on Requirements for Graduation.

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# The College of Health and Human Services

#### **Health and Physical Education Core**

The Health and Physical Education curriculum identifies a required core of studies which emphasizes a body of knowledge relevant to the study of professional health and physical education, as well as the study of physical education and sport. Courses contained in the core are those which are intended to enable students to identify and solve problems by applying relevant knowledge and also to engage in self-directed learning.

Candidates for the degree program in Health and Physical Education must demonstrate acceptable cognitive and psychomotor qualifications as well as desirable character and personality traits. The professional program seeks to foster those qualities of individual character and competence that are inherent in personal and professional maturity. These competencies are evaluated at the end of the sophomore year. The student is either granted Advanced Standing in the department or restricted in scheduling advanced courses for not less than one probationary semester. Continuation in the major program is based upon attainment of department Advanced Standing.

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# The College of Health and Human Services

### **Driver Education-Safe Living 7-12**

Candidates for the driver education certification must possess, or be a candidate for, a valid Pennsylvania certificate in any area of certification. A student must currently complete the following four courses: <a href="https://example.com/HPED 251">HPED 252</a>, <a href="https://example.com/HPED 254">HPED 252</a>, <a href="https://example.com/HPED 254">HPED 252</a>, <a href="https://example.com/HPED 254">HPED 254</a>, <a href="https://example.com/HPED 254">HPED 255</a>, and <a href="https://example.com/HPED 254">HPED 255</a>, <a href="https://example.com

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# The College of Health and Human Services

### **Certification-Driver Education-Safe Living**

Certification in Driver Education-Safe Living may be added to a valid Pennsylvania Instructional Certificate with the completion of the following courses:

HPED 251	Foundations of Safety and Emergency	
	Health Care	3sh
HPED 252	Introduction to the Driving Task	3sh
<u>HPED 353</u>	Driving Education Program Management	3sh
HPED 354	Application of Driver Education	
	Instructional Modes	3sh

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# The College of Health and Human Services

### **Highway Safety Center**

IUP's Highway Safety Center attempts to address the highway safety needs of the commonwealth through a variety of programs and activities. The Highway Safety Center programs encompass activity in five major areas: 1) research, surveys, and studies, 2) education (teaching), 3) training and conferences, 4) field and extension services, and 5) traffic safety communications and information exchange.

#### **Teacher Certification in Driver Education**

Through cooperative effort with IUP's Department of Health and Physical Education, the Highway Safety Center coordinates and directs IUP's Teacher Certification Program in Driver Education.

#### **IUP Regional Highway Safety Project**

The IUP Regional Highway Safety Project is a federally funded program contracted with the Pennsylvania Department of Transportation's Center for Highway Safety. Originating at IUP in January, 1987, under the title of the Indiana County Seat Belt Program, its purpose was to increase public awareness and the usage of occupant restraints. The program expanded its emphasis and territory in 1989 and now includes the counties of Armstrong, Jefferson, and Clearfield. Programs for corporations, schools, civic groups, law enforcement agencies, etc., include topics such as occupant safety, bicycle safety, pedestrian safety, safe driving characteristics, and DUI. The project also serves as a resource to other community safety groups by providing printed materials, audiovisual aids, crash-car dummy costumes, and the "Seat Belt Convincer." A Car Seat Loaner Program also provides car seats to residents in Indiana County.

#### **Driver Training Programs**

From basic driver education programs for beginning drivers to truck driver training to advanced driver training programs in emergency driving techniques, the Highway Safety Center provides a cadre of courses, all designed to meet the needs of the student.

#### **Emergency Services Training**

This is a program area designed to meet the training needs of ambulance, fire, and police personnel in the areas of emergency medical services and rescue.

#### **Traffic Accident Investigation**

Traffic Accident Investigation programs are available for safety directors, insurance adjusters, and police personnel. Courses range from basic investigation up to and including accident reconstruction.

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# The College of Health and Human Services

### **Aquatics School Course Offerings**

Each summer the department offers the annual Aquatics School. Students attending must possess the necessary aquatic prerequisites. A fee will be charged. All courses may be taken for college credit, if the student is eligible and pays the additional tuition fee. For more information, contact the aquatic director.

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# The College of Health and Human Services

#### Department of Hotel, Restaurant, and Institutional Management

Jeffrey A. Miller, Chairperson; Baker, Marshall, Shiring, T. Van Dyke; and professors emeriti Simkins, Woods

The department offers students an academic preparation leading to a Bachelor of Science degree in Hotel, Restaurant, and Institutional Management. Students take general courses in business, chemistry, biology, computer literacy, and foreign language. Students elect to concentrate in either food service management or lodging management. The program has received accreditation from the Accreditation Commission for Programs in Hospitality Administration.

The food service management track prepares students for management positions in restaurants, corporate food services, entertainment or recreation food service, health care, or other institutional and contract food service.

The lodging management track prepares students for management positions within hotels, resorts, and other lodging operations. Emphasis is on the study of housekeeping, rooms, and sales departments but also includes food production and service.

Both programs require the student to complete 880 hours of hospitality industry work experience before graduation. The first 440 hours are completed during the freshman and sophomore years in any type of hospitality position selected by the student and must be completed before the internship is scheduled. The second 440 hours are completed as an internship. The internship is supervised by a faculty member who assists the student in developing the learning package to be achieved during the internship and who advises the intern on university, department, and site requirements.

Professional-type uniforms are prescribed as part of the dress code for departmental majors in all food production courses.

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# The College of Health and Human Services

#### Bachelor of Science-Hotel, Restaurant, and Institutional Management

54-55

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Liberal Studies: As outlined in Liberal Studies section
with the following specifications:
Mathematics: MATH 217
Natural Science: <a href="https://www.natural.com/chem/">CHEM 101</a> - <a href="https://chem/">CHEM 102</a>
Social Science: ECON 121, PSYC 101
Liberal Studies electives: COSC 101/IFMG 101/BEDU 101, FDNT 145,
no course with an HRIM prefix
Major:
Required courses:
                                                                        33
FDNT 150
FDNT 151
HRIM 101
          Foods
                                                               3sh
            Foods Laboratory
                                                               1sh
            Introduction to Hospitality Management
                                                              3sh
HRIM 259
          Hospitality Purchasing
HRIM 313
HRIM 356
            Food Systems I
                                                               4sh
            Human Resources in the Hospitality Industry 3sh
HRIM 401
           Cost Management
<u>HRIM 411</u>
           Seminar in Hospitality Management
<u>HRIM 413</u>
            Advanced Restaurant Operations
                                                               4sh
          Internship
HRIM 493
                                                               6sh (1)
Controlled electives: One track required
Food Service Management Track:
FDNT 145 Introduction to Nutrition
                                                               *sh (2)
<u>HRIM 306</u>
          Food and Beverage Management
          Food Service Equipment and Facilities Design 3sh
HRIM 358
HRIM 406
            Catering and Banquet Management
                                                               3sh
          Institutions Management
HRIM 408
Lodging Management Track:
HRIM 115 Introduction to Tourism
                                                               3sh
<u>HRIM 260</u>
            Hotel Systems Management
                                                               3sh
          Hotel Design and Maintenance
<u>HRIM 365</u>
                                                               3sh
<u>HRIM 420</u>
            Hotel Sales and Services
                                                               3sh
          Information Systems: Theory and Practice
IFMG 300
                                                                        15-21
Other Requirements:
ACCT 201 Accounting Principles I
                                                               3sh
BIOL 232
            Fundamentals of Microbiology
                                                               3sh
BLAW 235
           Introduction to Business Law
                                                               3sh
FNLG ---
                Foreign Languages
                                                               3-9sh(3)
MKTG 320
            Principles of Marketing
                                                               3sh
Free Electives:
                                                                        0 - 11
                                                                        124
Total Degree Requirements:
```

- (1) Each student must complete 880 hours of work experience, of which 440 hours must be through supervised experiences in HRIM 493. See department internship coordinator for detailed information.
- (2) Credit counted in Liberal Studies electives.
- (3) Each student must have foreign language proficiency of either:
  - A. Intermediate-level SPAN 201/FRNC 202/GRMN 252 or
  - B. Successful completion of two semesters of one language. Intermediate-level courses may be used as Liberal

Studies elective.

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# The College of Health and Human Services

#### **Department of Human Development and Environmental Studies**

Linda S. Nelson, Chairperson; Bowers, Gordon, Heckroth, Kesner, Lynn, A. Nelson, Rodgers, Schmitt, Swinker, Viggiano; and professors emeritae Cramer, Gallati, Hovis, Kazmer, Streifthau, Wood

The Department of Human Development and Environmental Studies was created by the merging of the Family and Consumer Sciences Education and Consumer Services departments. The mission statement of the Department of Human Development and Environmental Studies is to empower individuals to support human and environmental needs, enabling them to perform professionally in a changing, diverse technological and global society.

The department is composed of majors that are interdisciplinary and share humanistic values. All majors have an applied research focus and stress critical thinking, professional judgment, decision making, and synthesis of information with direct focus upon career paths.

The Human Development and Environmental Studies Department offers academic programs leading to the Bachelor of Science degree in the following majors: Child Development/Family Relations, Consumer Affairs, Fashion Merchandising, and Interior Design. The Family and Consumer Sciences Education program leads to a Bachelor of Science in Education. These majors prepare men and women for positions in business, the community, and education. The majors also prepare students for graduate study in the areas of interior design, housing, clothing, textiles, consumer economics, human service, child development, family studies, or education.

Faculty advisors work closely with students in planning and integrating the academic program to meet the students' career goals and to supplement classroom experiences. Internships are available and encouraged so students can apply academic knowledge to actual situations. International study is also available to provide an enriching cultural experience.

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# The College of Health and Human Services

#### **Consumer Affairs**

The Consumer Affairs major prepares individuals for professional positions in government, business, and the community. This option concentrates on consumer economic behavior and consumer protection and their relationship to the fair exchange and consumption of products and services. The increased interest in consumer concerns has resulted in creating and expanding positions for persons with an understanding of consumer needs, business operations, and regulatory agencies. The interdisciplinary approach provides the necessary knowledge and skills to fulfill the requirements of such positions.

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# The College of Health and Human Services

#### **Bachelor of Science-Consumer Affairs**

Liberal Studies: As outlined in Liberal Studies section with the following specifications:  Mathematics: MATH 101 or higher  Natural Science: CHEM 101-CHEM 102  Social Science: ECON 101, PSYC 101, SOC 151  Liberal Studies electives: no courses with CNSV prefix		54-55
Major: Required courses:  CNSV 101 CNSV 121 Introduction to Consumer Services CNSV 315 CNSV 413 CNSV 414 CNSV 415 CNSV 415 CNSV 416 CNSV 421 Senior Seminar FSMR 110 FSMR 303 FSMR 314 FDNT 212 INDS 213 Residential Appliances and Consumer Electronics Housing and Culture Journalistic Writing	3sh 1sh 3sh 3sh 3sh 3sh 3sh 3sh 3sh 3sh	42
Controlled electives: Three six-credit courses from list: CNSV 433, CNSV 461, CNSV 482, FSMR 112, FSMR 212, FSMR 303, FSMR 350, FSMR 450, HRIM 259, FDNT 362, HRIM 313, HRIM 358, INDS		
Other Requirements: Outside concentration:		18
Required:  BLAW 235 Introduction to Business Law  BLAW 336 Law of Business Organizations  BLAW 337 Consumer Law  Controlled electives: Three courses from list:  ADMS 321, MGMT 300, MKTG 320, MKTG 321, MKTG 433	3sh 3sh 3sh 9sh (1	)
Free Electives:		9-10
Total Degree Requirements:		124

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(1) Substitutions may be approved by department.

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# The College of Health and Human Services

#### **Community Services Track**

Liberal Studies: As outlined in Liberal Studies section

Within the Consumer Affairs major, students can elect a community services track which offers a broad selection of courses. Electives may be concentrated in specific areas. A concentration of courses is elected in an outside field of study such as sociology or psychology. Graduates may be employed by the Extension Services or by governmental and social agencies.

54-55

```
with the following specifications:
Mathematics: MATH 101 or higher
Natural Science: CHEM 101-CHEM 102
Social Science: ECON 101, PSYC 101, SOC 151
Liberal Studies electives: no course with CNSV prefix
Major:
                                                                                           32
Required courses:
ART 120
CNSV 101
             Principles of Design
                                                                                         2sh
               Personal and Family Management
                                                                               3sh
CNSV 121
CNSV 315
               Introduction to Consumer Services
               Consumer Economics and Family Finance
                                                                               3sh
CNSV 421
                Senior Seminar
                                                                               2sh
FSMR 110
                Introduction to Fashion
                                                                               3sh
<u>FSMR 314</u>
               Textiles
                                                                               3sh
FDNT 212
HMEC 224
               Nutrition
                                                                                3sh
               Marriage and Family Relations
                                                                               3sh
                Residential Appliances and
                Consumer Electronics
                                                                               3sh
INDS 312
               Housing and Culture
                                                                               3sh
Controlled electives:
One course from list: FSMR 112 or FSMR 212
                                                                                  3sh
Other Requirements:
                                                                                           25
Human Ecology requirements:
FDNT 150
FDNT 151
             Foods
                                                                                3sh
                Foods Laboratory
                                                                                1sh
               Child Development
                                                                               3sh
Outside concentration:
                                                                               18sh
Six courses from list: <u>ANTH 211, ANTH 319, PSYC 290, PSYC 310, PSYC 311, PSYC 312, PSYC 320, PSYC 321, PSYC 325, PSYC 330, PSYC 361, PSYC 373, PSYC 374, SOC 231, SOC 332, SOC 333, SOC 336, SOC 339, SOC 357, SOC 435, SOWK 238.</u>
                                                                                           12-13
Free Electives:
                                                                                           124
Total Degree Requirements:
```

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# The College of Health and Human Services

#### **Fashion Merchandising**

The Fashion Merchandising program provides course emphasis in clothing and human behavior, apparel production and analysis, textiles and quality control, apparel distribution, merchandising and promotion, global diversity, historic textiles and apparel, color and aesthetics, and apparel construction. Communications, problem solving, group project organization, professional presentation, and analytical and critical thinking skills are incorporated in course content. The Eberly College of Business and Information Technology complements the Fashion Merchandising major by providing study in one of three options: Business Administration, Marketing, and Small Business Management.

A cooperative program between IUP and the Fashion Institute of Technology in New York City allows students to study one of seven majors: accessories design, advertising and communications, advertising design, fashion design, manufacturing management, textile/surface design, and textile development and marketing.

Graduates of the Fashion Merchandising program are being prepared for entry-level positions such as manufacturer's sales representative, production assistant, ready-to-wear quality control analyst, textile testing laboratory technician, management trainee leading to position of store manager, executive/merchandising trainee leading toward position of buyer/merchandise manager, museum curator assistant, personal color consultant, and personalized shopping specialist for an upscale retail firm.

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# The College of Health and Human Services

### **Bachelor of Science-Fashion Merchandising**

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 101 or higher level MA course Natural Science: CHEM 101-CHEM 102 Social Science: ECON 121; GEOG 104 or PSYC 101; ANTH 11 ANTH 211 or SOC 151 Liberal Studies electives: BEDU 101/COSC 101/IFMG 101, ECON 122; MATH 214 or MATH 217; no course with FSMR prefix	<u>0</u> or
Major:	39
FSMR 110 FSMR 112 FSMR 314 FSMR 350 FSMR 385 FSMR 434 FSMR 450 FSMR 450 FSMR 480 Introduction to Fashion Fundamentals of Clothing Construction Textiles Apparel Industry I Ready-to-Wear Analysis FSMR 450 FSMR 450 FSMR 450 FSMR 450 FSMR 450 FSMR 480	3sh 3sh 3sh 3sh 3sh 3sh 3sh 3sh
Controlled electives: Courses from <u>INDS 205</u> , <u>FSMR 212</u> , <u>FSMR 252</u> , <u>FSMR 281</u> , <u>FSMR 303</u> , <u>FSMR 357</u> , <u>FSMR 433</u> , <u>FSMR 453</u> , <u>FSMR 454</u> , <u>FSMR 455</u> , <u>FSMR 457</u> , <u>FSMR 481</u> , <u>FSMR 482</u>	12sh
Additional Requirements:	21-24
Required courses:  ACCT 201 Principles of Accounting I  MKTG 320 Principles of Marketing  JRNL 120 Journalistic Writing or  ENGL 310 Public Speaking	3sh 3sh 3sh
Students will complete courses in one of the following options:	12-15sh
Option 1: Business Adminstration Minor (15sh ACCT 202, FIN 310, MGMT 310, select two from ADMS 321, BLAW 235, IFMG 300 (Note: students must meet all minor requirements listed in catalog)	)
<pre>Option 2: Marketing (12sh MKTG 321, MKTG 420, select two from DEDU 332 (1), DEDU 333, MKTG 421 (1), MKTG 430, MKTG 433</pre>	)
Option 3: Small Business Management (12sh MGMT 275, MGMT 325 (1), select two from MGMT 300, MGMT 310, MGMT 350, MGMT 403 (2)	)
Free Electives:	5-10
Total Degree Requirements:	124
<ul><li>(1) Prerequisites to be waived.</li><li>(2) Student will need to take <u>ACCT 202</u> and <u>ACCT 300</u>.</li></ul>	

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# The College of Health and Human Services

#### **Interior Design**

The Interior Design program enables graduates to analyze problems, synthesize information, and implement design solutions supportive of the needs of people and the environment. The program emphasizes synthesizing of information and creative problem solving based on interdisciplinary experiences and communicating solutions. The program enables graduates to adapt to a changing world by drawing on history and multidisciplinary experience and applying principles of research.

The core of the Interior Design program includes courses addressing space planning, drafting, design graphics, color theory, building systems, materials and finishes, human factors, computer-aided drafting and design (CADD), design development, textiles, lighting, residential and contract design, and professional practice. Detailed information is available from instructors regarding equipment and supplies to be purchased by students for individual courses in this program. Internships present an excellent opportunity for students to gain practical, on-the-job training and are highly recommended. Experiential learning opportunities in the community augment the program. Students tour a variety of settings including offices, museums, factories, showrooms, retail outlets, and construction sites. Supportive courses are offered in art and business. Graduates are prepared for entry-level positions in commercial and residential design, sales, historic preservation, and showroom management.

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# The College of Health and Human Services

### **Bachelor of Science-Interior Design**

```
Liberal Studies: As outlined in Liberal Studies section
                                                                           54-55
with the following specifications: Mathematics: \underline{\text{MATH } 101} or higher
Humanities-Philosophy/Religious Studies: PHIL 223 recommended
Fine Arts: ARHI 101
Natural Science: SCI 105-SCI 106
Social Science: PSYC 101, SOC 151
Liberal Studies electives: ARHI 205 or ARHI 206, BEDU 101/
COSC 101/IFMG 101, ECON 122, no courses with INDS prefix
                                                                             45
Major:
Required courses:
FSMR 314
INDS 105
             Textiles
                                                                   3sh
             Introduction to Interior Design
                                                                   3sh
INDS 118
INDS 205
INDS 218
             Drafting for Construction I
                                                                   3sh
             Color Theory and Application Drafting for Construction II
                                                                   3sh
                                                                   3sh
INDS 305
INDS 310
INDS 313
             Interior Lighting
                                                                   3sh
             Human Factors in Interior Design
                                                                   3sh
             Materials and Finishes
                                                                   3sh
INDS 315
             Residential Design I
INDS 319
             Residential Design II: Kitchen, Bath, Media
             Room Design
                                                                   3sh
<u>INDS</u> 370
             Development of Design I /W/
                                                                   3sh
<u>INDS 380</u>
             Development of Design II /W/
INDS 405
INDS 464
             Interior Design Professional Practice
                                                                   3sh
             Contract Design I
                                                                   3sh
INDS 465
             Contract Design II
                                                                   3sh
Other Requirements:
                                                                             14
Outside concentration
Business: ADMS 101, MKTG 320
                                                                        6sh
Art: ART 120, 213; one course from list: ART 214,
         <u>215</u>, <u>216</u>, <u>218</u>, <u>219</u>
Free Electives:
                                                                             10-11
Total Degree Requirements:
                                                                             124
```

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# The College of Health and Human Services

### **Family and Consumer Sciences Education**

The Family and Consumer Sciences Education major prepares students for the teaching of family and consumer sciences-related subjects in the public schools. Coursework is required in all areas of family and consumer services, including child development and family relations, consumer economics, clothing, foods, and interior design/housing. Professional education courses are also required.

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# The College of Health and Human Services

# **Bachelor of Science in Education - Family and Consumer Sciences Education (\*)**

```
Liberal Studies: As outlined in Liberal Studies
section with the following specifications:
                                                                           54-56
Natural Science: <a href="https://www.natural.com/chem/">CHEM 101 - CHEM 102</a>
Social Science: PSYC 101, SOC 151
Liberal Studies electives: CNSV 315,
no courses with FCSE prefix
                                                                           35
Professional Education sequence:
<u>COMM 301</u>
            Technology for Learning and Instruction
             Education of Students with Disabilities in
EDEX 301
             Inclusive Secondary Programs
                                                                  2sh
            Educational Psychology
                                                                  3sh
EDSP 377
EDUC 242
EDUC 342
            Educational Tests and Measurements
                                                                 3sh
            Pre-student Teaching Clinical Experience I
Pre-student Teaching Clinical Experience II
                                                                 1sh
                                                                 1sh
EDUC 431
             Student Teaching in Family and
             Consumer Sciences
                                                                  6sh
             Student Teaching
                                                                  6sh
            School Law
                                                                  1sh
FCSE 350
            Teaching Family Life Education
                                                                  3sh
FCSE 450
             Teaching Vocational Home Economics
                                                                  3sh
FDED 202
            American Education in Theory and Practice
                                                                 3sh
Major:
                                                                           35
Required courses:
CNSV 101
            Personal and Family Management
                                                                 3sh
FSMR 112
            Fundamentals of Clothing Construction
FSMR 314
FDNT 150
                                                                  3sh
            Textiles
                                                                  3sh
            Foods
FDNT 151
            Foods Laboratory
                                                                  1sh
FDNT 212
HMEC 218
            Nutrition
                                                                  3sh
HMEC 218
HMEC 220
            Child Development
                                                                  3sh
            Teaching in Child Development Centers
                                                                 4sh
<u>HMEC 224</u>
            Marriage and Family Relations
INDS 312
            Housing and Culture
Controlled electives:
One from list: <u>INDS 213</u> or <u>CNSV 413</u>
                                                                  3sh
                  HMEC 424 or HMEC 463
One from list:
                                                                  3sh
                                                                           0-2
Free Electives:
```

(\*) See requirements leading to teacher certification, titled <u>Admission to Teacher Education</u> in the College of Education and Educational Technology section of this catalog.

124-126

(#) See advisory paragraph <u>Timely Completion of Degree Requirements</u> in catalog section on Requirements for Graduation.

(#)Total Degree Requirements:

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# The College of Health and Human Services

### **Child Development/Family Relations Major**

The Child Development/Family Relations program leads to a Bachelor of Science degree. Primary objectives of the program are to prepare professionals to administer and/or work in programs that entail aspects of child development and family relationships; teach at the adult level; or administer human services agencies at federal, state, or local level. The program also provides preparation for students who want to pursue graduate study in child development or family studies.

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# The College of Health and Human Services

### **Bachelor of Science-Child Development/Family Relations**

Liberal Studies: As outlined in Liberal Studies section with the following specifications:  Mathematics: MATH 101 or MATH 110 or MATH 121 or MATH  Natural Science: CHEM 101-CHEM 102  Social Science: ANTH 110, PSYC 101, SOC 151  Liberal Studies electives: no courses with HMEC prefix	
Major: Required courses:  CNSV 315 Consumer Economics and Family Finance Nutrition Child Development HMEC 218 HMEC 220 HMEC 224 HMEC 317 Infant Development  Infant Development	39-40  3sh 3sh 4sh 3sh 3sh 3sh
HMEC 426 HMEC 463 Techniques of Parent Education Family and the Community  Controlled electives: (one track)	3sh 3sh
Track A: Child Development/Family Relations HMEC 321 Preschool Education	
(Developmental Programming)  HMEC 324 Family Dynamics  HMEC 418 Advanced Child Development  HMEC 422 Early Childhood Education  HMEC 424 Family Issues	3sh 3sh 3sh 3sh 3sh
Track B: Child Development (by permission only)  HMEC 321 Preschool Education (Developmental Programming)  HMEC 418 HMEC 420 HMEC 420 Early Childhood Education	3sh 3sh 6sh 3sh
Track C: Family Relations (by permission only)  HMEC 324 HMEC 424 HMEC 493 Family Issues Internship	3sh 3sh 6sh
Other Requirements: Outside courses:	10
BIOL 155 Human Physiology and Anatomy  COMM 301 Technology for Learning and Instruction  EDSP 202 Educational Psychology	4sh 3sh 3sh
Free Electives:	18-23
Total Degree Requirements:	124
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# The College of Health and Human Services

### **Department of Industrial and Labor Relations**

James F. Byers, Chairperson; Bullard, Gaylor, McPherson, McCollester, Sedwick; and professors emeriti Gates, Morand

The Department of Industrial and Labor Relations offers a graduate program within the College of Health and Human Services leading to the degree of Master of Arts in Industrial and Labor Relations. The 42-semester-hour program consists of a required core of 27 semester hours, including an elective thesis and elective course offerings totaling 15 semester hours. Internships are available and strongly encouraged.

The Industrial and Labor Relations program is multidisciplinary, combining analytical and human relations skills with knowledge drawn from social sciences and business disciplines. The degree is designed to prepare professional industrial and labor relations practitioners in public and private management, unions, neutral agencies, government agencies, and arbitration panels. It has as a special emphasis labor relations in the public sector.

While the department does not offer coursework leading to an undergraduate major or degree, it does offer several undergraduate courses which are open to students of any major or college.

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# The College of Health and Human Services

### **Department of Nursing and Allied Health Professions**

Jodell L. Kuzneski, Chairperson; Barlow, Beck, Bellak, Doas, Gerwick, Hartman, Holmes, Houser, Labant, Palmer, Polansky, Poorman, Rossiter, Sadler, Settlemyer, Shellenbarger, Snyder, Twal, Walz, Waszak, Zuraikat; and professors emeritae Blair, Kresak, Murray, Smatlak, Thistlethwaite

The College of Health and Human Services offers a curriculum leading to the Bachelor of Science Degree in Nursing. Students are admitted to the nursing major as freshmen. Upon completion of the program, the graduate is prepared to write the examination for licensure as a Registered Nurse in Pennsylvania and other states. The program is fully accredited by the Commission on Collegiate Nursing Education.

The nursing curriculum has as its primary goal the development of competent professional nurses who are liberally educated, clinically competent, and aware of their social responsibilities as members of the health professions. The program is designed to provide a broad background in liberal education, coupled with the specialized knowledge and skills required for professional nursing. Additionally, the curriculum prepares the nurse to practice within the professional code of nursing ethics, to function effectively as a member of the health care professions, and to utilize scientific principles in planning and implementing health care. The nursing program emphasizes concepts in health promotion and maintenance and restoration of wellness for people of all ages.

The first three semesters are devoted mainly to Liberal Studies and science courses considered essential to the nursing major. The first clinical nursing courses begin in the fourth semester. Clinical experiences in patient care are provided in acute and long-term care facilities as well as community health agencies throughout the last five semesters. Detailed information is available in the department office regarding health and criminal record/child abuse screening requirements, professional uniform requirements, liability insurance needs, and transportation requirements. There is an option to complete the program in five years.

Registered Nurse students are enrolled in the basic baccalaureate program in nursing. They will have an upper-division major in Nursing and will fulfill all degree requirements set by the university and the Nursing Department. The Registered Nurse student may be awarded advanced standing, based on prior work completed at an accredited college or university and on exemption tests in nursing at a given point in the curriculum.

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# The College of Health and Human Services

### **Bachelor of Science-Nursing**

```
Liberal Studies: As outlined in Liberal Studies section
                                                                          55-56
with the following specifications: Mathematics: \underline{\text{MATH 217}} (1)
Natural Science: CHEM 101-CHEM 102
Social Science: PSYC 101, SOC 151
                                PHYS 151/PHYS 161, PSYC 310,
Liberal Studies electives:
no courses with NURS prefix
Major:
                                                                           53
Required courses:
NURS 280
NURS 285
NURS 302
            Introduction to Nursing
                                                                  3sh
             Introduction to Clinical
                                                                  3sh
             Core I
                                                                  2sh
NURS 303
             Clinical Lab I
                                                                  5sh
NURS 304
NURS 305
             Core II
                                                                  2sh
             Clinical Lab II
                                                                  5sh
NURS 322
NURS 323
NURS 402
             Maintenance and Restoration of Wellness I
            Maintenance and Restoration of Wellness II
                                                                 3sh
             Core III
                                                                  2sh
NURS 403
             Clinical Lab III
                                                                  5sh
NURS 404
NURS 405
             Core IV
                                                                  2sh
             Clinical Lab IV
                                                                  5sh
NURS 422
             Maintenance and Restoration of Wellness III
                                                                 3sh
NURS 423
             Maintenance and Restoration of Wellness IV
                                                                 3sh
NURS 430
NURS 480
             Nursing Research
                                                                  3sh
             Seminar in Nursing (2)
                                                                  4sh
                                                                           19
Other Requirements:
Science sequence:
BIOL 105
             Cell Biology
                                                                  3sh
BIOL 150
             Human Anatomy
                                                                  3sh
BIOL 151
            Human Physiology
                                                                  4sh
BIOL 241
FDNT 212
             General Microbiology
                                                                  3sh
             Nutrition
                                                                  3sh
            Abnormal Psychology
Free Electives:
                                                                           0
(#)Total Degree Requirements:
                                                                           127-128
```

- (1) The Pennsylvania State Board of Nursing requires two units of high school mathematics (one of which is algebra) for admission to the nursing major.
- (2) NURS 480 must be taken four semesters, focusing on a different topic each semester.
- (#) See advisory paragraph <u>Timely Completion of Degree Requirements</u> in catalog section on Requirements for Graduation.

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# The College of Health and Human Services

### **Respiratory Care**

Respiratory therapists assist physicians in the care of patients who have respiratory system problems or illnesses that relate to breathing. Their assistance includes administering gaseous drugs and executing therapeutic procedures. Included are the operation and maintenance of specialized equipment.

The program leads to the Bachelor of Science degree in Respiratory Care. Presented jointly by IUP and the Western Pennsylvania Hospital in Pittsburgh, the program offers intensive theoretical and applied knowledge to produce highly skilled graduates who are prepared to enter the profession as therapists or instructors.

Two academic years of university studies, followed by two academic years of hospital studies and clinical practice, constitute the program. Students must earn a GPA of 2.25 in Natural Sciences and Mathematics courses to be considered for admission into the clinical years in Respiratory Care. However, since admission to the hospital is competitive, IUP cannot guarantee admission into the hospital program.

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Liberal Studies: As follows:

Composition: ENGL 101, ENGL 202

# The College of Health and Human Services

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#### **Bachelor of Science-Respiratory Care**

```
Humanities: three courses, one in each area (PHIL 222 recommended)
Fine Arts: one course
Mathematics: MATH 105 or higher level
Natural Science: <a href="https://www.ncentral.com/chem/">CHEM 101 - CHEM 102</a>
Social Sciences: PSYC 101, SOC 151, non-Western course
Health and Wellness/ROTC: H&W recommended
Liberal Studies electives: one course, BEDU 101/COSC 101/IFMG 101
recommended
Synthesis: not required
Writing Intensive: not required
Major:
                                                                      62
Required Courses: (1) (2)
RESP 101 The Profession of Respiratory Care
RESP 326
          Respiratory Care Clinical Practice I
                                                            3sh
          Pharmacology
RESP 327
RESP 328
                                                             3sh
            Introduction to Respiratory Care
                                                            4sh
RESP 329
RESP 330
RESP 333
          Respiratory Care Instrumentation
          Cardiopulmonary Resuscitation
           Respiratory Care Clinical Practice II
RESP 334
          Respiratory Care Instrumentation
            and Application
                                                             4sh
            Nursing Arts
                                                             3sh
RESP 336
            Cardiopulmonary Evaluation and
            Clinical Correlation
RESP 337
RESP 425
            Introduction to Pulmonary Function Studies
            Clinical Case Studies
                                                             3sh
           Respiratory Care Clinical Practice III
RESP 426
RESP 428
           Essentials of Electrocardiology
                                                             2sh
RESP 429
            Design and Function of Respiratory
            Care Department
RESP 430
RESP 431
RESP 433
           Pulmonary Function Studies
           Pediatric Respiratory Care
Respiratory Care Clinical Practice IV
                                                             1sh
                                                           5sh
RESP 434
            Neonatal Respiratory Care
RESP 436
           Respiratory Care Teaching
                                                             2sh
RESP 437
            Methods in Critical Care
                                                             2sh
           Cardiopulmonary Rehabilitation
                                                            1sh
                                                                      17
Other Requirements:
Science courses:
BIOL 105 Cell Biology
                                                             3sh
BIOL 150
          Human Anatomy
                                                             3sh
          Human Physiology
BIOL 151
BIOL 241
                                                             4sh
           General Microbiology
                                                             3sh
PHYS 151
           Medical Physics Lecture
PHYS 161
           Medical Physics Lab
                                                             1sh
Free Electives:
                                                            124-126 (1)
(#)Total Degree Requirements:
```

- (1) Qualified students are encouraged to elect <u>RESP 342</u> in which case total credits would be 126-130.
- (2) RESP 300- and 400-level courses are completed at Western Pennsylvania Hospital in Pittsburgh

(#) See advisory paragraph <u>Timely Completion of Degree Requirements</u> in catalog section on Requirements for Graduation.

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# The College of Health and Human Services

### **Medical Technology**

Medical Technology encompasses the study of analytical and diagnostic procedures used in clinical laboratories and in medical research. Medical technologists/clinical laboratory scientists perform a variety of laboratory tests upon which the physician depends for accurate diagnosis, prognosis, and proper treatment of the patient. The program of studies, presented jointly by IUP and accredited medical technology programs in hospitals, prepares the student to enter the profession. Upon completion of the four-year program, the degree of Bachelor of Science in Medical Technology is granted. The program also prepares the student for graduate and professional schools.

IUP maintains short- and long-term affiliations with selected hospital schools. The Allied Health Professions coordinator provides student counseling and maintains a liaison with hospital schools. However, since admission to any hospital program is on a competitive basis, IUP cannot guarantee admission into any hospital program.

The following programs maintain permanent agreements of affiliations with IUP: Abington Memorial Hospital, Abington; Altoona Hospital, Altoona; Elkins Park Hospital, Elkins Park; Geisinger Medical Center, Danville; Lancaster General Hospital, Lancaster; Reading Hospital and Medical Center, Reading; St. Vincent Health Center, Erie; and University of Hartford, West Hartford, Connecticut. Other temporary affiliations are negotiated for the convenience of the student.

Completion of academic studies at IUP and of one year of clinical experience qualifies the student to take a national certification examination. Successful results on this examination lead to certification as a professionally qualified medical technologist/clinical laboratory scientist.

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# The College of Health and Human Services

### **Bachelor of Science-Medical Technology**

```
Liberal Studies: As follows
                                                                          45-47
Composition: ENGL 101, ENGL
Humanities: three courses - one in each area
(PHIL 222 recommended)
Fine Arts: one course
Mathematics: MATH 110 or higher level
Natural Science: CHEM 111-CHEM 112
Social Sciences: three courses
Health and Wellness/ROTC: H&W recommended
Liberal Studies electives: PHYS 111
Synthesis: not required
Writing Intensive: one required
Major:
                                                                          32
Required courses: (1)
MEDT 494 Clinical Microbiology
                                                                 8sh
MEDT 495
            Clinical Chemistry
                                                                 10sh
MEDT 496
MEDT 497
            Clinical Hematology/Coagulation Clinical Immunohematology
                                                                6sh
                                                                4sh
<u>MEDT 498</u>
            Clinical Immunology/Serology
                                                                 2sh
MEDT 499
            Clinical Seminar
                                                                 2sh
Other Requirements: Science sequence
                                                                          37 - 39
Required courses:
BIOL 111
BIOL 250
BIOL 364
          Principles of Biology I
                                                                 4sh
            Principles of Microbiology
                                                                 3sh
            Immunology
                                                                 3sh
<u>CHEM 231</u>
            Organic Chemistry I
                                                                 4sh
CHEM 232
CHEM 323
            Organic Chemistry II
                                                                 4sh
            Analytical Methods
                                                                 4sh
CHEM 351
            Biochemistry
                                                                 4sh
            Physics I Lab
                                                                 1sh
PHYS 112/PHYS 122
                             Physics II Lecture/Lab
                                                                         4sh
Controlled electives:
Two courses from list:
BIOL 112, BIOL 120, BIOL 151, BIOL 263, BIOL 331, BIOL 350, BIOL 352, BIOL 360, BIOL 432, BIOL 466, BIOL 476
6sh
Free Electives:
                                                                          6-10
(#)Total Degree Requirements:
                                                                          124
```

- (#) See advisory paragraph <u>Timely Completion of Degree Requirements</u> in catalog section on Requirements for Graduation.
- (1) These courses are offered by our affiliating hospital-based clinical programs. These areas of study are consistent with requirements of the National Accrediting Agency for Clinical Laboratory Sciences. All six of these areas of study are completed during the final twelve months of the degree program at one of the affiliating hospitals.

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# The College of Health and Human Services

# **Nuclear Medicine Technology**

Nuclear Medicine is the medical specialty that utilizes the nuclear properties of radioactive and stable nuclides to make diagnostic evaluations of the anatomic or physiologic conditions of the body and to provide therapy with unsealed radioactive sources. A nuclear medicine technologist's skills complement those of the nuclear medicine physician.

The nuclear medicine technologist is a highly trained individual who has completed an approved course of study in the theory of nuclear medicine technology. This allied health profession utilizes radioactive materials for the diagnosis of various pathological disease states and for the treatment of some specific disorders. The American College of Radiology, American Medical Association, American College of Medical Technology, American Society of Technologists, Society of Nuclear Medicine, and the Society of Medicine-Technologist Section cooperate to establish, maintain, and promote appropriate standards of quality for educational programs in nuclear medicine technology.

The program leading to a Bachelor of Science degree in Nuclear Medicine Technology consists of three years of study at IUP and one year at the University of Findlay/Nuclear Medicine Institute in Findlay, Ohio. Students must achieve a GPA of 2.25 in the Natural Sciences and Mathematics to be considered for admission to the Nuclear Medicine Institute. Since admission to the Nuclear Medicine Institute is competitive, IUP cannot guarantee admission into the institute's program.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# The College of Health and Human Services

# **Bachelor of Science-Nuclear Medicine Technology**

```
Liberal Studies: As follows:
                                                                          54-55
Mathematics: MATH 217 or higher level
Natural Science: <a href="https://www.nciences.com/nciences.com/">CHEM 101 - CHEM 102</a>
Social Science: PSYC 101, SOC 151
Liberal Studies Electives/Synthesis: BEDU 101/COSC 101/IFMG 101 plus
three Liberal Studies electives or two Liberal Studies elective
courses and one Synthesis course
                                                                          32
Major:
Required courses: (1)
NMDT 427
NMDT 428
NMDT 429
            Nuclear Scintigraphy
                                                                 3sh
            Radiation Physics
                                                                 3sh
            Nuclear Medicine Instrumentation
                                                                 3sh
NMDT 430
            Radiation Biology and Radiation Protection
                                                                 2sh
NMDT 431
NMDT 432
            In Vivo/In Vitro Non-Imaging
                                                                 1sh
            Radiopharmaceuticals
                                                                 3sh
NMDT 433
            Introduction to Tomographic Imaging
<u>NMDT 434</u>
            Clinical Nuclear Medicine
                                                               16sh
Other Requirements:
                                                                          21
Science courses:
BIOL 105
            Cell Biology
                                                                 3sh
BIOL 150
BIOL 151
            Human Anatomy
                                                                 3sh
            Human Physiology
                                                                 4sh
<u>PHYS 111</u>
            Physics I Lecture
                                                                 3sh
PHYS 121
PHYS 112
            Physics I Lab
                                                                 1sh
            Physics II Lecture
                                                                 3sh
            Physics II Lab
                                                                 1sh
Required courses: (2)
          Public Speaking
                                                                 3sh
ENGL 310
                                                                          17
Free Electives:
At least two of the selected courses must be Writing Intensive.
Total Degree Requirements:
                                                                          124-125
```

- (1) These courses are offered at the University of Findlay/Nuclear Medicine Institute, Findlay, Ohio. These areas of study are consistent with requirements of the Joint Review Committee on Educational Programs on Nuclear Medicine Technology (JRCNMT). All eight of these areas of study are completed during the final twelve months of the degree program.
- (2) Students are also required to complete a medical terminology course/program. Options to fulfill this requirement must be approved by the Coordinator of Allied Health Professions.

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# The College of Health and Human Services

# **Gerontology Certificate Program**

The Gerontology Certificate program provides an interdisciplinary approach to the systematic study of the aging and is designed to be combined with any undergraduate major at IUP. The 21-semester-hour program entails three core courses, three elective courses, and an internship that will provide experiential learning in an agency or program serving older adults. Many courses fulfill the requirements for the Liberal Studies program. Applications are available at 244 Johnson Hall. For information, call 724-357-7647.

```
Core Courses:
                                                                        9
HPED 350
PSYC 312
            Health Aspects of Aging
                                                              3sh
            Adult Development and Aging
                                                              3sh
            Sociology of Aging
                                                             3sh
Controlled Electives:
                                                                       9
           ANTH 444, CNSV 315,
                                       281,
<u>ANTH 340</u>,
                                 GERN
                                             GERN 481,
                                 MGMT 300,
           HMEC 324, HPED 413,
                                             MGMT 311,
     <u>376</u>,
                378,
                                 PHIL 405,
                                                        SAFE 380,
                      PHIL 400,
           PSYC
SOC 336, SOC 342, SOC 345
Other Requirements:
                                                                        3
Internship (GERN 493 or internship in student's major)
                                                                   3sh
                                                                       21
Total Requirements:
```

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# The College of Health and Human Services

# **Department of Safety Sciences**

Lon H. Ferguson, Chairperson; Engler, Joseph, McClosky, Reed, Rhodes, Rivers, Rodrigues, Soule; and professors emeriti Christensen, McClay, Pacalo

The department offers the Bachelor of Science degree in Safety Sciences with specialization in occupational safety and health. The program in Safety Sciences prepares the student for professional, administrative, managerial, and supervisory positions in industry, manufacturing, insurance, transportation, utility, government, construction, trade service industries, and others. There remains a need in Pennsylvania and the nation for university-educated occupational safety and health professionals. The curriculum includes a major of 41 semester hours in Safety Sciences and an additional 16 semester hours in related professional courses. A variety of elective courses are available in both the major and professional fields that enable students to strengthen their primary interest areas.

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# The College of Health and Human Services

# **Bachelor of Science-Safety Sciences (@)**

```
Liberal Studies: As outlined in Liberal Studies section
                                                                        55-56
with the following specifications:
Mathematics: MATH 121
Social Science: PSYC 101, SOC 151, Non-western culture recommended
Liberal Studies electives: <a href="ECON 122">ECON 122</a>, <a href="BEDU 101/COSC 101/">BEDU 101/COSC 101/</a>
IFMG 101, MATH 217, no course with SAFE prefix
Major:
                                                                        41
Required courses:
<u>SAFE 101</u>
            Introduction to Occupational Safety
            and Health
                                                               3sh
            Principles of Industrial Safety I
                                                               3sh
SAFE 210
SAFE 211
SAFE 301
          Environmental Safety and Health Regulations
                                                              3sh
            Principles of Industrial Safety II
Health Hazard Identification
                                                               4sh
                                                               3sh
SAFE 303
           Control of Health Hazards
SAFE 311
SAFE 345
            Industrial Fire Protection
                                                               3sh
            Systems Safety Analysis
                                                               3sh
            Ergonomics
                                                               3sh
<u>SAFE 402</u>
            Health Hazard Evaluation
                                                               3sh
SAFE
            Hazard Prevention Management
                                                               4sh
SAFE 488/493 Safety Internship
                                                                   6sh
                                                                        28
Other Requirements:
Additional Science and Math:
PHYS 111
            Physics I Lecture
                                                               3sh
PHYS 112
            Physics II Lecture
                                                               3sh
PHYS 121
PHYS 122
                                                               1sh
            Physics I Lab
            Physics II Lab
                                                               1sh
BIOL 155
            Human Physiology and Anatomy
Professional courses:
<u>ADMS 231</u>
            Speech Communication for Professionals
ADMS 321
            Business and Interpersonal Communications
MGMT 311
            Human Behavior in Organizations
Three professional courses approved by student's advisor9sh
Total Degree Requirements:
                                                                        124-125
```

(@) Program revisions pending IUP Council of Trustees approval.

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# The College of Health and Human Services

# **Minor-Safety Scieces**

Minor-Safety Sciences 18

#### Required courses:

<u>SAFE 101</u>	Introduction to Occupational Safety	
	and Health	3sh
<u>SAFE 111</u>	Principles of Industrial Safety I	3sh
<u>SAFE 301</u>	Health Hazard Identification	3sh

#### Controlled electives:

Three SAFE courses approved by department chairperson 9sh

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# The College of Humanities and Social Sciences

# The College of Humanities and Social Sciences

The College of Humanities and Social Sciences provides a liberal education as an essential foundation for the student's preparation for a satisfying career. The college maintains an emphasis on the fundamental understanding of our cultural heritage, combined with development of a thorough background of knowledge in the student's specific area of interest. It seeks to promote in students critical and objective thinking, analytical skills, and a keen awareness of their responsibilities to society.

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# The College of Humanities and Social Sciences

# **College Majors**

Anthropology

Criminology

Economics

**English** 

Foreign Languages and International Trade

French

Geography

German

Government and Public Service

History

**International Studies** 

Journalism

Philosophy

Political Science

**Regional Planning** 

**Religious Studies** 

Sociology

Spanish

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# The College of Humanities and Social Sciences

#### **Degrees**

The departments of Anthropology, Criminology, Economics, English, French and German, Geography and Regional Planning, History, Journalism, Philosophy and Religious Studies, Political Science, Spanish and Classical Languages, and Sociology offer work leading to a Bachelor of Arts degree. The Bachelor of Science is offered in Regional Planning.

Master of Arts or Master of Science degrees are offered by Criminology, English, Geography and Regional Planning, History, Political Science, and Sociology. The English and Criminology departments offer the Doctor of Philosophy degree. Information about these graduate programs may be obtained from the Graduate School.

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# The College of Humanities and Social Sciences

#### Junior-Year Review

All students who are candidates for a degree offered by the College of Humanities and Social Sciences must meet with their faculty advisors and complete a junior-year review of their academic record upon earning 72 semester hours. The purpose of the review is to verify that, by the planned graduate date, the student's graduation requirements will have been met. Completed junior-year review reports must be approved by the department chairperson and the associate dean. Juniors who are eligible for the review will not be permitted to register without completing this checkout.

It remains the student's responsibility to complete a form to apply for graduation and submit it to the department chairperson early in the term prior to graduation. Failure to meet the graduation application deadline may result in a delay in the student's graduation.

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# The College of Humanities and Social Sciences

#### **Degree Requirements**

In addition to the university's Liberal Studies requirements, all students seeking a baccalaureate degree in the College of Humanities and Social Sciences must complete the requirements for a major as established by the department through which they wish to specialize. Statements of these requirements, and the requirements for those minoring in a specific field, appear in the department sections that follow. A double major or minor may encompass a discipline outside as well as within the college but should be selected only with advisor approval. As a general principle, there is considerable latitude in course choice for Humanities and Social Sciences majors. The intermediate-level foreign language requirement (a description follows) applies without exception to all Humanities and Social Sciences four-year degree programs.

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# The College of Humanities and Social Sciences

#### **College Foreign Language Requirements**

Students in the colleges of Natural Sciences and Mathematics and Humanities and Social Sciences must demonstrate an intermediate level of foreign language proficiency as a college requirement for graduation. They may choose any of the languages offered, including self-instruction in the Critical Languages, described below. Intermediate-level foreign language courses in French, German, Italian, Latin, and Spanish will also count as Liberal Studies electives.

For students with previous foreign language instruction or experience, individual placement into foreign language courses may be done during placement testing and registration prior to the first semester at IUP. Students whose placement test demonstrates competence equivalent to the intermediate level are considered to have fulfilled the foreign language requirement. Students with no previous foreign language background will take entry-level courses, which may be counted as free electives in the total required for graduation.

Any foreign student, registered as such at IUP, whose acquired native language is other than English and who demonstrates an acceptable proficiency in English, is exempt from the foreign language requirement if the department of the student's major does not require a specific foreign language.

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# The College of Humanities and Social Sciences

#### **Critical Languages Program**

The Critical Languages program is a self-instructional/tutorial approach to less commonly taught foreign languages. Students meet with a tutor three hours per week in addition to practicing with audiocassettes. Most tutors are native speakers of the language. Professional teachers of the specific language may be brought in from other universities to evaluate student performance. The final grade is based on final examination as well as on performance during the tutorial sessions. Interested students must contact the coordinator before registration. Each course carries 3 semester hours of credit.

The following languages may be available for study: Arabic, Chinese, Dutch, Finnish, Hindi, Hungarian, Japanese, Korean, Modern Greek, Portuguese, Russian, Swedish, Hebrew, and Swahili.

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# The College of Humanities and Social Sciences

#### **Foreign Study Programs**

College majors may be interested in the various Foreign Study Programs and Tours offered. Semester hours obtained through such arrangements normally are applicable toward a Humanities and Social Sciences degree. Also of interest are the college's credit-awarding programs at Valladolid (Spain), Duisburg (Germany), and Nancy (France), as well as the Summer Study in Mexico Program. For further information, contact the chair of the appropriate language department.

**IUP at Valladolid:** Through the Spanish and Classical Languages Department, the university has offered a spring semester of study at the University of Valladolid, Spain, for more than thirty-five years. The participants live in private homes. For details and brochures, contact the Spanish and Classical Languages Department.

**IUP at Duisburg:** IUP has a study abroad program at the University of Duisburg, West Germany. The program is open to German majors and other students having specific interest in a foreign study experience. Students must register for <u>FNLG 100</u> and pay a foreign exchange fee for each semester in the program. For further information, contact the German Department.

**IUP at Nancy:** IUP has established a study program with the University of Nancy, France. Participants in the Nancy program must pay a foreign exchange fee for each semester in the program. For details, contact the French and German Department.

**IUP at Mexico Summer Program:** The Spanish and Classical Languages Department sponsors a program of study in Spanish language in Mexico. The program is located at Cuernavaca, and the cost of the program includes transportation, complete room and board, insurance, and tuition. The student may earn up to 6 semester hours of undergraduate or graduate credit. Internship opportunities are available for students with fluency in Spanish. For details and brochures, contact the Spanish and Classical Languages Department.

**IUP at Costa Rica Summer Program:** The Department of Spanish and Classical Languages has also established a four-week study program at the National University of Costa Rica, located in Heredia. Participants live with Costa Rican families and take classes at the university. This program is intended for students who are going abroad for the first time, and preference is given to beginning students. Participants earn four transfer credits in Spanish from the UNA. For details and brochures, contact the Spanish and Classical Languages Department.

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# The College of Humanities and Social Sciences

#### **Pre-Law Track**

The College of Humanities and Social Sciences offers a pre-law track that prepares the student for application to law school. This track is in the following Social Sciences, Humanities, and Business departments: Business, Criminology, Economics, English, History, Philosophy, and Political Science. All tracks are designed as part of a baccalaureate degree and as preparation for law school.

Coursework in the pre-law track centers upon a carefully developed interdisciplinary minor. For detailed guidance in pre-law, students should consult the pre-law advisor in their major department.

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# The College of Humanities and Social Sciences

#### **Internship Programs**

Humanities and Social Sciences departments have extensive internship programs which allow students to engage in supervised off-campus work experience for credit. IUP students have worked in Harrisburg as aides to state legislators, with the Governor's Justice Commission and the Local Government Commission, and with the Investigations Division, Pennsylvania Department of Justice. Others have worked at correctional institutions in Pittsburgh, Greensburg, and Warrendale, as peer group counselors on the local campus, as assistants to the Pennsylvania state Republican chairperson, as on-site guides at the United Nations, as workers on an Israeli kibbutz, and as student aides for the Department of Education in Puerto Rico. Other students have worked in the Pittsburgh federal probation office. Many students have worked with major political parties and candidates at the local and state levels. At the county level, they have been attached to the offices of the county planner, the Common Pleas Court, the coroner, the treasurer, commissioners, and the borough manager. Students have also worked in the Washington offices of Pennsylvania congressmen and in many federal and international organizations in Washington as well. Opportunities for internships in other countries also exist. For more information about specific internship programs, students should consult with the chair of the department in which the student is majoring.

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# The College of Humanities and Social Sciences

#### **Asian Studies Minor**

The Asian Studies Minor is designed to increase awareness of the world's largest, most populous, and most diverse continent. Its purpose is to combine an area focus with liberal studies requirements of the IUP curriculum. The minor provides an opportunity to increase awareness and understanding of Asian cultures, environments, and peoples. It adds depth to the liberal studies portion of the students' program, enhances job skills, and prepares students for postgraduate programs with area or regional themes.

Students complete a minimum of 18 semester hours outside of their major. At least four courses (12sh), including three different departmental prefixes, must come from Category A: Exclusively Asia-Focused. One Asian "Critical Language" course may apply to the Category A requirement. Other courses may come from either Category A or Category B: Substantially Asia-Focused. Special topics and independent study courses may be applied to either category with the approval of the Asian Studies Committee.

Category A: Exclusively Asia-Focused Courses are devoted to a combination or subset of the following topics: the continent of Asia (as defined by International Geographical Union convention), its physical environments, and the human systems and cultures indigenous to the region.

Category B: Substantially Asia-Focused Courses have significant material specifically about the continent of Asia, its physical environments, and the human systems and cultures indigenous to the region. The remainder of the course material establishes relevant comparisons and contexts for Asian themes.

```
Category A: Exclusively Asia-Focused:
                                                                                     12-20
ANTH/SOC 273
                        Cultural Area Studies: Southeast Asia
                                                                          3sh
GEOG 256
                    Geography of East Asia
                                                                      3sh
                   Geography of South and Southeast Asia
GEOG 257
                                                                     3sh
HIST 330
HIST 331
HIST 335
                   History of the Islamic Civilization
                                                                     3sh
                   Modern Middle East
                                                                     3sh
                   History of East Asia
                                                                      3sh
PLSC 383
PLSC 384
RLST 311
                   Political Systems: Asia
                                                                     3sh
                   Political Systems: Middle East
                                                                     3sh
                   Eastern Philosophy
                                                                     3sh
                   Religions of China and Japan
                                                                     3sh
RLST 375
SOC 272
                   Religions of India
                                                                     3sh
                  Cultural Area Studies: China
Asian Critical Languages
                                       3sh each
CRLG 101/151/201/251 Arabic I, II, III, IV CRLG 102/152/202/252 Chinese I, II, III, IV CRLG 105/155/205/255 Hindi I, III, IV CRLG 108/158/208/258 Japanese I, II, III, IV
<u>CRLG 109</u>/<u>159</u>/<u>209</u>/<u>259</u> Korean I, II, III, IV
Category B: Substantially Asia-Focused:
                                                                                        0 - 6
ECON 339
               Economic Development I
                                                                     3sh
ECON 345-W
ECON 346-W
ECON 350
                   International Trade (Asia case study)
                                                                     3sh
                   International Payments (Asia case study)3sh
                   Comparative Economic Systems
                                                                     3sh
GEOG 104
                   Geography of the Non-Western World
                                                                     3sh
                   Geography of Russia and the
GEOG 254
                    Soviet Sphere
                                                                     3sh
                   Asian American Culture
                                                                     3sh
LBST 499
PLSC 101
                   Cross-Cultural Communication with Asia
                                                                     3sh
                   World Politics
                                                                      3sh
PLSC 285
                   Comparative Government II: Non-
                   Western Political Systems
                                                                     3sh
RLST 110
                   World Religions
                                                                      3sh
```

RLST 380 Islam 3sh

For further information on the Asian Studies Minor, contact the College of Humanities and Social Sciences, 201 McElhaney Hall, (724) 357-2280.

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# The College of Humanities and Social Sciences

#### Pan-African Studies Minor

The Pan-African Studies minor is a multidisciplinary program that brings together courses focusing on the vitality and accomplishments of pre-colonial African societies, the cultural and racial heritages of people of African descent in relationship to western societies, and aspects of modern-day African cultures. The cluster of courses included in this program represents a broad, diverse look at the diaspora of people of African origin.

The minor helps IUP students to enrich their cross-cultural studies; to heighten their awareness of, and sensitivity to, cultural diversity; and to expand their knowledge of world contributions of persons of African heritage. A Pan-African studies minor is thus valuable in an increasingly diverse society and attractive to employers and graduate schools alike.

MinorPan	-African Studies		18
Required co	ourses:		6
<u>PNAF 131</u> HIST 365	Introduction to Pan-African Studies The History of Black America Since	3sh	
<u>HIST 303</u>	Emancipation	3sh	
Electives:	Four courses from the following list:		12 (1)
PNAF 281	Special Topics in Pan-African Studies	3sh	
PNAF 481	Special Topics in Pan-African Studies	3sh	
PNAF 482	Independent Study	3sh	
ANTH/SOC 2	<u>71</u> Cultural Area Study: Africa 3sh		
COMM 380	The History of African Americans in Film	3sh	
ECON 339	Economic Development I	3sh	
<b>ENGL</b> 348	African-American Literature	3sh	
<b>GEOG 255</b>	Geography of Africa	3sh	
<u>HIST 355</u>	African History I - Antiquity to 1600	3sh	
<u>HIST 356</u>	African History II - 1600 to Present	3sh	
<u>HIST 366</u>	African-American Women	3sh	
PLSV 382	African Politics	3sh	
<u>RLST 360</u>	African Religions	3sh	

(1) With the program coordinator's approval, three credits of an internship may be counted towards the Pan-African studies minor.

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# The College of Humanities and Social Sciences

# **Department of Anthropology**

Phillip D. Neusius, Chairperson; Chaiken, Conelly, Garcia, Kruckman, S. Neusius; and professors emeriti Lanham, Olin-Fahle

The Anthropology Department promotes awareness of anthropological knowledge and methods and seeks to further the discipline and its applications to the problems of the contemporary world. Through teaching, research, and involvement in campus and community events and programs, the anthropology faculty members contribute to the liberal education of IUP students. The anthropology major itself equips students with knowledge and skills needed for full participation in the global environment of the twenty-first century.

Anthropology emphasizes the study of human biological and cultural diversity within its four subfields: sociocultural anthropology, biological anthropology, linguistics, and archaeology. All students receive a solid foundation in the discipline of anthropology and tailor their major to specific interests by following one of the three tracks.

The General Anthropology track continues the student's education in all of the subfields of anthropology, preparing the student for a graduate education in anthropology or in one of many related fields. The general track also provides a solid base for interdisciplinary study with a number of other fields including biology, philosophy, political science, psychology, religious studies, sociology, and Spanish.

The Archaeology track provides an emphasis on the study of culture through the material remains of human behavior. This track provides training for careers in the growing fields of cultural resource management and historic preservation, with opportunities for employment in both government and the private sector. A wide variety of internship opportunities provide hands-on training in these areas.

The Applied Anthropology track provides students with a background in anthropological method and theory, a cross-cultural perspective, and an avenue to translate this knowledge into action through internships and research. Examples of career opportunities include program design, implementation, and evaluation; policy analysis and administrative and managerial development; assessment of current and future human needs; and creation of strategies for social intervention and advocacy. In consultation with an advisor, each student will develop his or her own curriculum in order to build expertise in a specific topical area.

The department also offers preparation for teaching social studies with a concentration in anthropology. This program leads to a Bachelor of Science in Education degree. With its emphasis on cross-cultural comparisons, the realities of contemporary global cultures, and cultural resource management, anthropology provides a solid foundation for teaching social science at the secondary level. The department also offers a minor in anthropology.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# The College of Humanities and Social Sciences

# **Bachelor of Arts-General Anthropology Track**

```
Liberal Studies: As outlined in Liberal Studies section
                                                                      53-54
with the following specifications:
Mathematics: MATH 217
Social Science: SOC 151 (recommended)
Liberal Studies electives: BEDU 101/COSC 101/IFMG 101, (recommended),
no courses with ANTH prefix
College:
                                                                       0-6
Foreign Language Intermediate Level (1)
                                                                       33
Major:
Required courses:
<u>ANTH 211</u>
            Cultural Anthropology
                                                             3sh
ANTH 222
ANTH 233
           Biological Anthropology
                                                             3sh
           Language and Culture
                                                              3sh
ANTH 244
           Basic Archaeology
                                                             3sh
<u>ANTH 456</u>
          Field Research Methods
                                                             3sh
Controlled electives:
One theory course:
ANTH 480 Anthropology Seminar or
                                                             3sh
           Modern Sociological Theory (2)
Three courses in Topical Area Ethnography such as:
                                                                9sh
ANTH 271 Cultural Area Studies: Africa
ANTH 272
ANTH 273
            Cultural Area Studies: China
Cultural Area Studies: Southeast Asia
<u>ANTH 274</u>
            Cultural Area Studies: Latin America
ANTH 314
           Native Americans
Two additional ANTH electives (300 or 400 level)
                                                                      6sh
Other Requirements:
                                                                       37-38
Free Electives:
Total Degree Requirements:
                                                                      124
```

- (1) Intermediate-level Foreign Language may be included in Liberal Studies electives.
- (2) <u>SOC 447</u>: Modern Sociological Theory may be taken only with approval of the advisor.

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# The College of Humanities and Social Sciences

# **Bachelor of Arts-Anthropology/Archaeology Track**

Liberal Studies: As outlined in Liberal Studies section with the following specifications:  Mathematics: MATH 217	53-54
Natural Science: GEOS 121/GEOS 122-GEOS 131/GEOS 132 (recomment Social Science: SOC 151 (recommended)  Liberal Studies electives: BEDU 101/COSC 101/IFMG 101, (recommended) no courses with ANTH prefix	•
College: Foreign Language Intermediate Level (1)	0-6
Major:	36
Required courses:  ANTH 211	3sh 3sh 3sh 3sh
Controlled electives:	
Three methods courses:  ANTH 317 ANTH 320 ANTH 415 ANTH 415 ANTH 415 ARChaeological Research Design and Analysis Archaeological Field School (2) ANTH 415	3sh 6sh 3sh
One theory course:  ANTH 480 Anthropology Seminar or SOC 447 Modern Sociological Theory (3)  Two area courses, one in archaeology and one in	3sh
ethnography, such as: ANTH 213 World Archaeology or ANTH 315 North American Archaeology	3sh
and <u>ANTH 314</u> Native Americans or <u>ANTH 271/ANTH 272/ANTH 273/ANTH 274</u> Cultural Area Study	3sh
One topical course such as:  ANTH 401 Sociocultural Change or  ANTH 420 Cultural Ecology	3sh
Other Requirements:	0
Free Electives: (4)	37-38
Total Degree Requirements:	124

- (1) Intermediate-level Foreign Language may be included in Liberal Studies electives.
- (2) For approval by advisor, an equivalent field school of another university must have a lab component.
- (3) <u>SOC 447</u>: Modern Sociological Theory may be taken only with approval of the advisor.
- (4) A minor in Geoscience, Geography, History, or other approved field is recommended. An internship (<u>ANTH 493</u>) also is recommended. Your advisor should be consulted.

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# The College of Humanities and Social Sciences

# **Bachelor of Arts-Anthropology/Applied Anthropology Track**

Liberal Studies: As outlined in Liberal Studies section with the following specifications:  Mathematics: MATH 217  Social Science: SOC 151 (recommended)  Liberal Studies electives: BEDU 101/COSC 101/IFMG 101, no courses with ANTH prefix		53-54
College: Foreign Language Intermediate Level (1)		0-6
Major: Required courses: ANTH 211	3sh 3sh 3sh 3sh	36
Two methods courses:  ANTH 360 Applied Anthropology ANTH 456 Field Research Methods	3sh 3sh	
One theory course:  ANTH 480 Anthropology Seminar or SOC 447 Modern Sociological Theory (2)	3sh	
One area course:  ANTH 314 Native Americans or  ANTH 271/ANTH 272/ANTH 273/ANTH 274 Cultural Area Stud Two additional ANTH electives (300 or 400 level) Internship in Anthropology (3)	3sh ly 6sh 6sh	
Other Requirements: (recommended)  ENGL 322 Technical Writing  SOC 231 Contemporary Social Problems  SOC 457 Computer Use in Sociology		0
Free Electives:		34-35
Total Degree Requirements:		124

- (1) Intermediate-level Foreign Language may be included in Liberal Studies electives.
- (2) <u>SOC 447</u>: Modern Social Theory may be taken only with permission of the advisor.
- (3) Internship is highly recommended but may be replaced by 6sh of pragmatic skill courses upon approval of advisor.

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# The College of Humanities and Social Sciences

# **Bachelor of Science in Education-Social Sciences Education/Anthropology Concentration (\*)**

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Social Science: ANTH 211, ECON 121, PSYC 101 Liberal Studies electives: ECON 122, GEOG 230, no courses with ANTH prefix		53-55
College: Professional Education sequence: COMM 301 Technology for Learning and Instruction EDEX 301 Education of Students with Disabilities	3sh	32
in Inclusive Secondary Settings  EDSP 202 EDSP 377 EDUC 242 EDUC 342 EDUC 441 EDUC 441 EDUC 442 EDUC 442 EDUC 455  in Inclusive Secondary Settings Educational Psychology Educational Tests and Measurements Pre-student Teaching Clinical Experience II Student Teaching School Law Teaching of Social Sciences in	2sh 3sh 3sh 1sh 1sh 12sh 1sh	
Secondary Schools  FDED 202 American Education in Theory and Practice	3sh 3sh	
Major:		21
Required Anthropology courses:  ANTH 211	*sh (1 3sh 3sh 3sh	)
Two area ethnography courses: (ANTH 271, ANTH 272, ANTH 273, or ANTH 314)	6sh	
Two additional Anthropology courses numbered 300 or above	6sh	
History Distributional Requirements: Any two History courses which focus on the U.S. Any Non-Western or World History course	6sh 3sh	9
Required Social Science Distribution:  PLSC 280 or PLSC 285  GEOG 104, GEOG 252, GEOG 255, GEOG 256, or GEOG 257	3s 3sh	<b>6</b> h
Other Requirements:		0
Free Electives: (2)		1-6
Total Degree Requirements:		124

- (\*) See requirements leading to teacher certification, titled <u>Admission to Teacher Education</u> in the College of Education and Educational Technology section of this catalog.
- (1) Courses counted toward Liberal Studies credits do not receive duplicate credit in major..
- (2) If a course is chosen for a Social Sciences major, it may also fulfill a Liberal Studies elective and permit additional free electives.

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# The College of Humanities and Social Sciences

# **Minor-Anthropology**

Minor-Anthropology

15

Required course:

<u>ANTH 110</u> Contemporary Anthropology 3sh

Controlled electives:

Four additional courses in Anthropology 12sh

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# The College of Humanities and Social Sciences

# **Department of Criminology**

Dennis M. Giever, Chairperson; Agozino, Austin, Claus, Gibbs, Gido, Hanrahan, J. Martin, R. Martin, McCauley, McNabb, Merlo, Mutchnick, Myers, Roberts, Scott, Smith, J. Thomas, Wilson, Zimmerman; and professor emerita Moyer

The Department of Criminology offers students seeking careers in criminology a broad liberal arts education supported by a professional education program. The degree offered is the Bachelor of Arts with a major in Criminology; students may also minor in Criminology. Through the Graduate School the department offers graduate work at the master's and doctoral level.

The program in Criminology has a five-fold objective:

- 1. The education of students for employment and leadership in the expanding field of criminology and criminal justice
- 2. The education of presently employed criminal justice personnel who recognize a need for furthering their education
- 3. The instruction of students who wish to acquire an understanding of the processes of criminal justice as a cultural part of their higher education
- 4. The instruction of students who wish to prepare for graduate study and/or research in criminology
- 5. A curriculum that provides an excellent foundation for students preparing for a career in law

Nearly every level of government offers opportunities for professional careers in criminology. Employment opportunities normally exist in more than fifty federal agencies, including the Federal Bureau of Investigation, U.S. Secret Service; U.S. Postal Inspectors; Drug Enforcement Agency; Bureau of Alcohol, Tobacco, and Firearms; National Security Agency; U.S. Marshals; the Internal Revenue Service; and military investigative branches. Graduates will find employment in local and state law enforcement, probation, parole, and the custody and treatment of adult and youthful offenders. There are also a wide variety of opportunities in the expanding fields of private, commercial, and industrial security. In addition, many governmental agencies have specialized units dealing with juveniles, community relations, training, education, and research.

Career opportunities are available also in research and teaching at the college and university levels and in research divisions of various agencies.

Students who wish to change their major or minor to Criminology or Criminology/Pre-Law track must have an overall GPA of 2.5 to declare the major or minor and to be accepted formally by the department.

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# The College of Humanities and Social Sciences

# **Bachelor of Arts-Criminology**

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Liberal Studies electives: no courses with CRIM prefix		53-55
College: Foreign Language Intermediate Level (1)		0-6
Major:		36
Required courses:		
CRIM 102 Survey of Criminology	3sh	
CRIM 210 Criminal Law	3sh	
CRIM 300 Theories of Complex	3511	
	3sh	
Criminal Justice Organizations		
CRIM 306 Criminological Research Methods	3sh	
CRIM 400 Theoretical Criminology	3sh	
CRIM 401 Contemporary Issues in Criminology	3sh	
Controlled electives: One course from list: CRIM 416, CRIM 451, CRIM 470, CRIM 491 Five additional Criminology courses	3sh 15sh (2	)
2-		
Free Electives: (3)		27-35
Total Degree Requirements:		124

- (1) Intermediate-level Foreign Language may be included in Liberal Studies electives.
- (2) No more than 6sh of <u>CRIM 493</u>: Internship may be applied to 36sh minimum in major.
- (3) Students selecting a minor may apply no more than 15sh outside the College of Humanities and Social Sciences without special approval.

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# The College of Humanities and Social Sciences

# **Bachelor of Arts-Criminology/Pre-Law Track**

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Liberal Studies electives: no courses with CRIM prefix		
College: Foreign Language Intermediate Level (1)		0-6
Major: Required courses: CRIM 102 Survey of Criminology CRIM 210 Criminal Law Theories of Complex Criminal Justice Organizations CRIM 306 Criminological Research Methods Theoretical Criminology	3sh 3sh 3sh 3sh 3sh	36
CRIM 401 Contemporary Issues in Criminology  Controlled electives: One course from list: CRIM 416, CRIM 451, CRIM 470, CRIM 491  Five additional Criminology courses	3sh 3s 15sh (2	
Other Requirements: Pre-law interdisciplinary track Seven courses, including at least one from each of six areas: Business: BLAW 235, ACCT 201, ACCT 202 Economics: ECON 121, ECON 122, ECON 332 English: ENGL 212, ENGL 220, ENGL 310 History: HIST 320, HIST 321, HIST 346 Philosophy: PHIL 101, PHIL 222, PHIL 450 Political Science: PLSC 358, PLSC 359, PLSC 361		15-21
Free Electives: (3)		6-20
Total Degree Requirements:		124

- (1) Intermediate-level Foreign Language may be included in Liberal Studies electives.
- (2) No more than 6sh of <u>CRIM 493</u>: Internship may be applied to 36sh minimum in major.
- (3) Students selecting a minor may apply no more than 15sh outside College of Humanities and Social Sciences without special approval.

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# The College of Humanities and Social Sciences

# **Minor--Criminology**

Minor-Criminology (1) (2) 18

Required c	courses:	
<u>CRIM 102</u>	Survey of Criminology	3sh
<u>CRIM 210</u>	Criminal Law	3sh
<u>CRIM 300</u>	Theory of Complex Criminal	
	Justice Organizations	3sh
<u>CRIM 306</u>	Criminological Research Methods	3sh
<u>CRIM 400</u>	Theoretical Criminology	3sh
CRIM 401	Contemporary Issues in Criminology	3sh

- (1) Must have formal criminology department approval to be admitted to minor in Criminology.
- (2) Must have an overall 2.5 GPA to declare the minor.

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# The College of Humanities and Social Sciences

# **Department of Economics**

Nicholas Karatjas, Chairperson; Asamoah, Brewer, Cross, Dyal, Jozefowicz, Martel, Radakovic, Radell, Stonebraker; and professor emeritus Walker

Economics provides a background and educational base that open a broad range of professional, educational, and vocational opportunities. As part of a Humanities and Social Sciences degree, a Bachelor of Arts in Economics provides a liberal education as well as professional and technical training. Indeed, many students completing an undergraduate major in Economics do not pursue careers as professional economists; they enter such fields as law, management, finance, and labor relations. By helping to develop a student's ability to think and communicate, economics provides a firm foundation upon which the student can build any one of a large number of possible careers.

Four different degree programs are available: a Bachelor of Arts in Economics that prepares students for immediate employment or graduate school; Bachelor of Arts in Economics/Pre-Law track for students who wish to attend law school; a Bachelor of Arts in Economics/Mathematics combining courses in both areas to prepare students for graduate study in economics as well as possible immediate employment; and the Bachelor of Science in Education that prepares students to teach economics and other social sciences in secondary schools.

The Department of Economics offers concentrations in seven areas of Economics. The concentrations are designed to equip students with the education and skills that will help to enable them to obtain a position in government or private business upon completion of the undergraduate program. The concentrations available at present are

- Competition and Public Policy
- Economics of Government Affairs
- International Economics
- Labor Economics
- Managerial Economics
- Monetary Economics
- Quantitative Economics

Detailed information regarding these concentrations may be obtained from the department chairperson. Concentrations are not restricted to Economics majors.

Either <u>ECON 101</u>: Basic Economics or <u>ECON 121</u>: Principles of Economics will count as a Liberal Studies social science course. However, <u>ECON 101</u> is intended for students who will take only one course in the field. Students who anticipate taking more than one economics course should schedule <u>ECON 121</u>. <u>ECON 101</u> will not count toward either a major or minor in economics and may not be taken after the successful completion of or in concurrent registrations with any other economics course.

Economics majors are encouraged to minor in one of the other Social Sciences, in Business, or in Mathematics.

The Department of Economics houses the Center for Economic Education. The center is a nonprofit, nonpartisan organization affiliated with both the Pennsylvania Partnership for Economic Education and the National Council on Economic Education. Its mission is to upgrade the quality of economic education in kindergarten through twelfth

grade. The center performs the following functions: teacher training, consulting services, research, materials development, and programs in economic education for adults. Drs. Yaw Asamoah and Arthur H. Martel are the codirectors of the center.

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# The College of Humanities and Social Sciences

### **Bachelor of Arts-Economics**

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Social Science: ECON 121 Mathematics: MATH 110 or MATH 121 (1) Liberal Studies electives: no courses with ECON prefix		
College: Foreign Language Intermediate Level (2)		0-6
Major:		24
Required courses:		
ECON 121 Principles of Economics I	*sh	
ECON 122 Principles of Economics II ECON 355 Statistics for Economists	3sh 3sh (3)	
ECON 421 Macroeconomic Analysis	3sh (3)	
ECON 422 Microeconomic Analysis	3sh	
MATH 121 Calculus I for Business, Natural, and		
Social Sciences	*sh (1)	
Controlled electives:		
Four other EC courses	12sh (4	)
Free Electives:		38-47
riee Electives:		30-47
Total Degree Requirements:		

- (1) MATH 123 or MATH 127 may be substituted for MATH 121.
- (2) Intermediate-level Foreign Language may be included in Liberal Studies electives.
- (3) MATH 214, MATH 217 or MATH 363 may be substituted for ECON 355.
- (4) No more than six hours of Internship credit may be applied toward major.

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# The College of Humanities and Social Sciences

### **Bachelor of Arts-Economics/Pre-law Track**

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Social Science: ECON 121 Mathematics: MATH 110 or MATH 121 (1) Liberal Studies electives: no courses with ECON prefix	53-56
College: Foreign Language Intermediate Level (2)	0-6
Major: Required courses:  ECON 121    Principles of Economics I ECON 355    Statistics for Economists (3) ECON 421    Macroeconomic Analysis ECON 422    Microeconomic Analysis MATH 121    Calculus I for Business, Natural, and Social Sciences	*sh 3sh 3sh 3sh 3sh *sh (1)
Controlled electives: Four other ECON courses	12sh (4)
Other Requirements: Pre-law interdisciplinary track Seven courses, including at least one from each of six areas: Business: BLAW 235, ACCT 201, ACCT 202 Criminology: CRIM 210, CRIM 260, CRIM 357 English: ENGL 212, ENGL 220, ENGL 310 History: HIST 320, HIST 321, HIST 346 Philosophy: PHIL 101, PHIL 222, PHIL 450 Political Science: PLSC 358, PLSC 359, PLSC 361	6-21
Free Electives:	17-36
Total Degree Requirements:	124

- (1) MATH 123, or MATH 127 may be substituted for MATH 121.
- (2) Intermediate-level Foreign Language may be included in Liberal Studies electives.
- (3) MATH 214, MATH 217, or MATH 363 may be substituted for ECON 355.
- (4) No more than six hours of Internship credit may be applied toward major.

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# The College of Humanities and Social Sciences

# **Bachelor of Arts-Economics/Mathematics**

with the f Social Sci Mathematic Electives:	<pre>udies: As outlined in Liberal Studies section following specifications: ence: ECON 121 (included in major) s: MATH 123 (included in major)   Intermediate foreign language, with ECON or MATH prefix.</pre>	47-49
Major:		53-55
Core: ECON 121 ECON 122 ECON 421 ECON 422 MATH 123  MATH 124  MATH 171 MATH 216  or ECON 355	Principles of Economics I Principles of Economics II Macroeconomic Analysis Microeconomic Analysis Calculus I for Physics, Chemistry, and Mathematics Calculus II for Physics, Chemistry, and Mathematics Introduction to Linear Algebra Probability and Statistics for Natural Sciences Statistics for Economists	3sh 3sh 3sh 4sh 4sh 4sh 3sh
and <u>ECON 3</u> <u>ECON 493</u> m	Electives: re especially encouraged to take ECON 334 56, but any course except ECON 101 may be used ay be counted only with the approval of m coordinator and only up to 6sh.	<b>12</b> ed.
At least of MATH 241 DMATH 363 AMATH 445	s Electives: one of the following two-semester sequences: oifferential Equations and MATH 371 Linear Algund MATH 364 Mathematical Statistics I and MATH 446 Programming and Probabilisons Research	and II
Three addi MATH 271 MATH 272 MATH 342 MATH 417 MATH 418 MATH 421 MATH 422 MATH 422 MATH 425 MATH 425 MATH 451 MATH 451 MATH 465 MATH 477	tional courses either from the above or from Introduction to Mathematical Proofs I Introduction to Mathematical Proofs II Advanced Mathematics for Applications Statistical Applications or Sampling Survey Theory and Its Applications Advanced Calculus I Advanced Calculus II Complex Variables I Applied Mathematical Analysis I Introduction to Topology Numerical Methods for Supercomputers Topics in Statistics Abstract Algebra I Abstract Algebra II	the following:
Other Requ	irements:	0
Free Elect	ives:	20-24
Total Degr	ee Requirements:	124
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## The College of Humanities and Social Sciences

# **Bachelor of Science in Education-Social Science Education/Economics** Track (\*)

Liberal Studies: As outlined in Liberal Studies section with the following specifications:  Social Science: PSYC 101, PLSC 111, ANTH 110 or ANTH 2  Mathematics: MATH 110 or MATH 217 or MATH 121  Liberal Studies electives: GEOG 230, SOC 337		53-55
College:		32
Professional Education sequence:  COMM 301 Technology for Learning and Instruction	3sh	
EDEX 301 Education of Students with Disabilities in Inclusive Secondary Settings	2sh 3sh	
EDSP 202 Educational Psychology EDSP 377 Educational Tests and Measurements	3sh	
EDUC 242 Pre-student Teaching Clinical Experience I EDUC 342 Pre-student Teaching Clinical Experience II	1sh 1sh	
EDUC 441 Student Teaching EDUC 442 School Law	12sh 1sh	
EDUC 455 Teaching of Social Sciences in Secondary Schools FDED 202 American Education in Theory and Practice	3sh 3sh	
Major:	3811	21
Required Economics courses:		21
ECON 121 Principles of Economics I  ECON 122 Principles of Economics II	3sh 3sh	
Controlled Economics electives: Upper-level Economics courses including at least one writing-intensive course and at least one course from each of the following three groups: International courses: ECON 339, ECON 345, ECON 350, ECON 351		15sh
Macroeconomic courses: ECON 325, ECON 343, ECON 421 Microeconomic courses: ECON 283, ECON 330, ECON 331, ECON 332, ECON 333, ECON 335, ECON 336, ECON 373, ECON	383	
Other Requirements:		15-18
Required Social Science distribution HIST 203 U.S. History for Historians	3sh	
GE <u>PLSC 280</u> or <u>PLSC 285</u> Comparative Governments	3sh 3sh	
Social Science minor	6-9sh (	1)
Free Electives:		0-3
Total Degree Requirements:		124

- (\*) See requirements leading to teacher certification in the catalog section on Academic Policies, "Admission to Teacher Education."
- (1) Students must complete a minor in second Social Science of their choice. The coursework for each alternative is described below. Some of the courses chosen may also fulfill the third Liberal Studies elective course above.
  - 1. Anthropology: ANTH 110 or ANTH 211, 12 additional sh in ANTH

- 2. Geography: GEOG 230 (3sh) and 12 additional sh in GEOG
- 3. History: HIST 195 (3sh), HIST 203 (3sh), 9 additional sh in HIST
- 4. Political Science: PLSC 111, PLSC 280 or PLSC 285, 9 additional sh in PLSC
- 5. Sociology: SOC 151, SOC 237, 9 additional sh in SOC

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## The College of Humanities and Social Sciences

## **Minor in Economics**

Minor: 15 Required courses:

ECON 121Principles of Economics I3shECON 122Principles of Economics II3shThree courses from ECON 200 or higher9sh

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## The College of Humanities and Social Sciences

## **Department of English**

Donald S. McClure, Chair; Gail I. Berlin, Assistant Chair; Aghbar, Alvine, Bencich, Berlin, L. Black, Bower, Cahalan, Carse, Chow, Comfort, Dandurand, Donna, Downing, Emerick, Fritz, Gatti, Gebhard, Goebel, M. Hayward, N. Hayward, Huddleston, B. Hudson, S. Hudson, Hurlbert, S. F. Johnson, Kilwein-Guevara, Kraszewski, Krupnik, Marsden, Masiello, McAndrew, McClenahan, McClure, Murphy, Norris, Orchard, Pagnucci, Perdue, Rafoth, Roffman, Savova, Sell, Shafer, Sitler, Slater, Smits, Stilwell, Tannacito, Vella, Villa, Ware, Watson, Welsh, Willen, M. M. Williamson, M. T. Williamson, Wilson; and professors emeriti Anderson, Betts, J. Bright, L. Bright, Brown, Craig, Davis, Freund, Gray, Hartwell, Miller, Nania, Ray, Roumm, Seinfelt, Smith, Swigart, Thomas, Watta, Woodworth

The program of studies in the English Department at IUP focuses on critical thinking and effective reading and writing at all levels. English majors study a wide variety of subjects ranging from literary theory to practical pedagogy, in an atmosphere that encourages and fosters a high degree of professional commitment.

Course choices depend upon a student's career goals; three specialized majors are offered, each of which undergoes regular revision to reflect the needs of students and the structure of a changing, competitive job market.

The Bachelor of Arts in English Humanities offers a wide range of courses in both traditional and nontraditional areas, which allows students to tailor their programs to reflect their own interests and career plans.

English/Pre-Law track offers specialized training for those interested in a career in law or some related field.

The English Education program offers special training for prospective secondary school teachers. IUP's consistent success in placing graduates from this major in teaching positions suggests that the program is highly regarded among educators outside the university.

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## The College of Humanities and Social Sciences

#### **English Humanities**

The English Department's Bachelor of Arts in Humanities curriculum emphasizes the traditional concerns of English literary study by providing a common core of four courses that provide students with a uniform background in English and American literature, after which they are offered a wide range of choices in six substantial areas of required study. These required and controlled-elective courses constitute 30 semester hours of a major that totals 36; the remaining courses can be any upper-level English elective offerings, but students are urged to explore possibilities carefully with their advisors so as to complete the program best suited to their future goals.

Specifically, after completing the four prerequisite courses and the Liberal Studies English requirements, students must take

- one Period Course (Category A)
- one Form and Theory of Genre Course (Category B)
- one Alternative Literatures Course (Category C)
- one European Tradition Course (Category D)
- one Major Authors Course (Category E)
- one Writing, Speech, Linguistics Course (Category F)
- a minimum of *two* courses beyond these group requirements. These two courses may be from one or more of the groups, or may be Topics Courses in literature, film, or literary theory.

Students, especially those for whom the B.A. is a terminal degree, are encouraged to seek an internship in their junior or senior year as a means of developing and demonstrating the skills they have acquired.

Since the major can be completed with 36 semester hours of coursework, students have 27-35 semester hours outside of the Liberal Studies requirements, depending on their foreign language status, of unspecified coursework. Students should explore their options carefully with their advisor. Beyond the basic requirements of the major, opportunities exist for students to elect courses allowing them to concentrate further in such areas as writing, film, and British or U.S. literature.

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## The College of Humanities and Social Sciences

## **Bachelor of Arts-English**

```
Liberal Studies: As outlined in Liberal Studies section
                                                                             53-55
with the following specifications:
Humanities-Literature: ENGL 122
Liberal Studies electives: no courses with ENGL prefix
College:
                                                                              0-6
Foreign Language Intermediate Level (1)
                                                                              36
Major:
Required courses:
ENGL 210
             British Literature to 1660
                                                                    3sh
ENGL 211
             British Literature 1660-1900
                                                                    3sh
ENGL 212
             American Literature: Beginnings to 1900
                                                                    3sh
             British and American Literature Since 1900
Controlled electives: (2) (3)
                                                                          24sh
One course from Category A (Period):
                                               ENGL 301,
ENGL 302, ENGL 303, ENGL 304, ENGL 305, ENGL 306,
ENGL 307, ENGL 315, ENGL 316, ENGL 317, ENGL 319
One course from Category B (Form and Theory of Genre):
         ENGL 208, ENGL 214, ENGL 215, ENGL 216, ENGL 332, ENGL 335, ENGL 337, ENGL 338
ENGL 332, ENGL 335, ENGL 337, ENGL 338
One course from Category C (Alternative Literatures):
         ENGL 225, ENGL 344, ENGL 348, ENGL 385, ENGL 386,
         ENGL 396
One course from Category D (The European Tradition):
         ENGL 349, ENGL 354, ENGL 387, ENGL 391, ENGL 393,
         ENGL 394, ENGL 395
One course from Category E (Major Authors):
ENGL 430, ENGL 432, ENGL 434, ENGL 4
One course from Category F (Writing, Speech,
                                 ENGL 434, ENGL 436
         Linguistics): ENGL 220, ENGL 221, ENGL
         ENGL 311, ENGL 312, ENGL 313, ENGL 320, ENGL
         ENGL 325, ENGL 326, ENGL 329, ENGL 330, ENGL 334, ENGL 336, ENGL 420, ENGL 422
                                                          ENGL 333,
                                 ENGL 420
                                     Any combination of six
Two courses from Category G:
         semester hours from <u>ENGL 281, ENGL 356</u>, <u>ENGL 357</u>,
         ENGL 390, ENGL 401, ENGL 460, ENGL 461, ENGL 462, ENGL 481, ENGL 482, ENGL 493, and/or any other
         courses listed above under categories A through F.
Other Requirements:
                                                                              0
Free Electives: (3)
                                                                              27 - 35
Total Degree Requirements:
                                                                              124
```

- (1) Intermediate-level Foreign Language may be included in Liberal Studies electives.
- (2) Any <u>ENGL 281</u>, <u>ENGL 481</u>, or <u>ENGL 482</u> course must have prior approval from department chair if it is to apply to the student's major other than in Category G.
- (3) An internship, aside from counting for 6sh toward the major, makes the B.A. degree recipient much more employable by providing job experience. Students should see the English B.A. Program Internship Director for advice about available openings.

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## The College of Humanities and Social Sciences

#### **Education Program**

The English Department offers a program leading to the Bachelor of Science in Education degree in English Education. This program has been accredited by the National Council for Accreditation of Teacher Education (NCATE). Graduates are prepared to teach in middle, junior high, and senior high schools.

English Education majors fulfill all the requirements for state certification, including practical experience in methods courses and student teaching; content preparation in a variety of literature, language, and composition courses; and philosophical background in current theories of teaching. Although most students choosing an English Education major will be fitted both by training and desire for the secondary school classroom, those who opt not to teach will find that their speaking, writing, and management skills can be useful to the media, governmental services, and business.

Program requirements are available at the English Department office. Majors must maintain a minimum cumulative GPA of 2.5. They must be formally admitted to the Teacher Certification Program, a process which includes application and screening within the English Department. This screening involves review of the student's portfolio of written work and faculty evaluations, as well as an interview with English Education faculty. Refer to the section "Admission to Teacher Education and Certification" in the College of Education and Educational Technology section of this catalog and the English Education handbook.

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## The College of Humanities and Social Sciences

## **Bachelor of Science in Education-English Education (\*)**

```
Liberal Studies: As outlined in Liberal Studies section
                                                                         53-55
with the following specifications:
Humanities-Literature: ENGL 122
Fine Arts: THTR 101
Social Science: PSYC 101
Liberal Studies electives:
                              Intermediate-Level
Foreign Language, no courses with ENGL prefix
                                                                         30
College:
Professional Education sequence: (1)
            Technology for Learning and Instruction
COMM 301
EDEX 301
            Education of Students with Disabilities
            in Inclusive Secondary Settings
                                                                2sh
EDSP 202
EDSP 377
            Educational Psychology
Educational Tests and Measurements
                                                                3sh
                                                                3sh
EDUC 242
            Pre-student Teaching Clinical Experience I
                                                                1sh
EDUC 342
EDUC 441
            Pre-student Teaching Clinical Experience II
                                                                1sh
            Student Teaching
                                                                12sh
EDUC 442
            School Law
                                                                1sh
EDUC 455
            Teaching of Social Sciences in
            Secondary Schools
                                                                3sh
FDED 202
            American Education in Theory and Practice
                                                                3sh
                                                                         40
Major:
Required courses:
ENGL 212
            American Literature: Beginnings to 1900
                                                                3sh
ENGL 220
            Advanced Composition I
                                                                3sh
ENGL 314
            Speech and Communication in the
            Secondary English Classroom
                                                                3sh
ENGL 318
            Literature of Adolescents
                                                                3sh
ENGL 323
            Teaching Literature and Reading in
            the Secondary School
                                                                3sh
ENGL 324
            Teaching and Evaluating Writing
                                                                3sh
ENGL 329
            History of the English Language
                                                                1sh
ENGL 330
                                                                3sh
            Structure of English
ENGL 434
            Shakespeare
Controlled electives:
Choose one Genre course:
                             ENGL 214, ENGL 215,
ENGL 216, ENGL 217
                                                                  3sh
Choose one British Literature Survey: ENGL 210,
<u>ENGL 211</u>
                                                                3sh
Choose one Theme course: <u>ENGL 344</u>, <u>ENGL 348</u>, <u>ENGL 386</u>
Choose two additional courses from list:
                                                                3sh
                                                                6sh
                                             ENGL 214,
ENGL 208, ENGL 210, ENGL 211, ENGL 213,
ENGL 215,
ENGL 320,
           ENGL 216, ENGL 217, ENGL 322, ENGL 333,
                                  ENGL 221,
ENGL 336,
                                             ENGL 319
ENGL 337
ENGL 344, ENGL 348,
Other Requirements:
Free Electives:
```

Total Degree Requirements: 124

(\*) See requirements leading to teacher certification in the catalog section on Academic Policies, <u>Admission to Teacher Education</u>

(1) Special Education Competency Requirement: Revision pending will eliminate exam option and will require EDEX 301 (2sh).

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## The College of Humanities and Social Sciences

#### **Pre-Law English**

Successful lawyers possess excellent skills in writing and speaking and can analyze a problem and explain its solution in clear, logical terms. Pre-Law English prepares the student especially well in these areas and provides the skills and knowledge needed to do well in the law school admissions examination.

Most graduates have had successful internships in the offices of practicing attorneys and government agencies, although an internship remains optional. Students wishing an internship should contact the department director of internships early in their career at IUP.

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## The College of Humanities and Social Sciences

## **Bachelor of Arts-English/Pre-law Track**

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Liberal Studies: As outlined in Liberal Studies section
                                                                                   53-55
with the following specifications:
Humanities-Literature: ENGL 122
Liberal Studies electives: no courses with ENGL prefix
College:
                                                                                    0-6
Foreign Language Intermediate Level (1)
                                                                                    36
Major:
Required courses:
ENGL 210
              British Literature to 1660
                                                                         3sh
ENGL 211
              British Literature 1660-1900
                                                                         3sh
ENGL 212
              American Literature: Beginnings to 1900
                                                                         3sh
              British and American Literature Since 1900
Controlled electives: (2) (3)
                                                                                24sh
One course from Category A (Period):
                                                   ENGL 301,
ENGL 302, ENGL 303, ENGL 304, ENGL 305, ENGL 306,
ENGL 307, ENGL 315, ENGL 316, ENGL 317, ENGL 319
One course from Category B (Form and Theory of Genre):
          ENGL 208, ENGL 214, ENGL 215, ENGL 216, ENGL 217, ENGL 332, ENGL 335, ENGL 337, ENGL 338
ENGL 332, ENGL 335, ENGL 337, ENGL 338
One course from Category C (Alternative Literatures):
          ENGL 225, ENGL 344, ENGL 348, ENGL 385, ENGL 386,
          ENGL 396
One course from Category D (The European Tradition):
          ENGL 349, ENGL 354, ENGL 387, ENGL 391, ENGL 393,
          ENGL 394, ENGL 395
One course from Category E (Major Authors):
ENGL 430, ENGL 432, ENGL 434, ENGL 4
One course from Category F (Writing, Speech,
                                    ENGL 434, ENGL 436
          Linguistics): ENGL 220, ENGL 221, ENGL
          ENGL 311, ENGL 312, ENGL 313, ENGL 320, ENGL
          ENGL 325, ENGL 326, ENGL 329, ENGL 330, ENGL 334, ENGL 336, ENGL 420, ENGL 422
                                                               ENGL 333.
ENGL 334, ENGL 336, ENGL 420, ENGL 422

Two courses from Category G: Any combination of six
          semester hours from <u>ENGL 281, ENGL 356</u>, <u>ENGL 357</u>,
          ENGL 390, ENGL 401, ENGL 460, ENGL 461, ENGL 462, ENGL 481, ENGL 482, ENGL 493, and/or any other
          courses listed above under categories A through F.
Other Requirements: Pre-law interdisciplinary track
                                                                                   6-21
Seven courses, including at least one
from each of six areas:
Business: <u>BLAW 235</u>, <u>ACCT 201</u>, <u>ACCT 202</u>
Criminology: <u>CRIM 210</u>, <u>CRIM 260</u>, <u>CRIM 357</u>
Economics: ECON 121, ECON 122, ECON 332
History: HIST 320, HIST 321, HIST 346
Philosophy: PHIL 101, PHIL 222, PHIL 450
Political Science: PLSC 358, PLSC 359, PLSC 361
Free Electives: (3)
                                                                                    6-26
```

(1) Intermediate-level Foreign Language may be included in Liberal Studies elective.

Total Degree Requirements:

(2) Any ENGL 281, ENGL 481, or ENGL 482 course must have prior approval from department chair if it is to apply

to the student's major other than in Category G.

(3) An internship with a law firm, public agency, or legislative office greatly strengthens law school applications.

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## The College of Humanities and Social Sciences

## **Minor in English**

To minor in English, 15 semester hours in English are required beyond the Liberal Studies requirement of <u>ENGL 101</u>, <u>ENGL 121</u>, and <u>ENGL 202</u>.

Students who choose to minor in English should, if their major department concurs, substitute <u>ENGL 122</u> for <u>ENGL 121</u>.

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## The College of Humanities and Social Sciences

## **Department of French and German**

Renee P. Liscinsky, Chairperson; Brode, Henry, Hurt, Jones, McCreary, Op de Beeck, Ready, Sullivan; and professors emeriti Fisel, Whitmer

The Department of French and German offers a varied curriculum designed to provide not only basic language instruction but also the more advanced competencies needed by language specialists and students hoping to take advantage of an international study experience.

#### French

For the French major, the department has three degree programs: the B.A. in French, the B.A. in French for International Trade, and the B.S.Ed. in French Education (K-12). The degree program in French for International Trade provides the solid undergraduate training preparatory to an M.B.A in International Marketing and Finance.

Students majoring in French will acquire proficiency in all phases of language and enter more deeply into the history, culture, and literature of Francophone countries. They will also gain knowledge of the linguistic development of the language throughout the centuries. French majors generally find employment in government work, librarianship, journalism, foreign trade, airlines, tourism, business, and teaching. Students choosing careers as teachers will find the close supervision and advanced methodology offered by the department a distinct asset.

#### German

For the German major, the department has three degree programs: the B.A. in German, the B.A. in German for International Trade, and the B.S. in Education in Secondary German Education.

While majoring in the German, students will acquire proficiency in all phases of the language and develop an understanding and appreciation of the history, culture, and literature of the German-speaking countries. They will also gain knowledge of the linguistic development of the language throughout the centuries. German majors may look forward to rewarding careers in teaching, government, journalism, foreign trade, tourism, business, and librarianship.

The degree program in German for International Trade provides an excellent way to combine language proficiency and cultural awareness in German with professional training in business. With this undergraduate background, students may enter M.B.A. degree programs and pursue careers in international business and trade. Study abroad for one or two semesters is strongly urged and is an integral part of the program. Qualified students may also choose to participate in internship programs with German-based corporations and financial institutions.

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## The College of Humanities and Social Sciences

#### **College Language Requirements**

Students in the College of Humanities and Social Sciences and in most departments of the College of Natural Sciences and Mathematics must pass the intermediate sequence of a foreign language (in French, FRNC 201-202 or FRNC 203) or demonstrate that they have somehow acquired the equivalent proficiency level. Students from the other colleges may choose to take French (FRNC 201 and 202 or the accelerated FRNC 203) to fulfill a Liberal Studies elective. Any student who chooses French has an option to enroll in the traditional three-credits-per-semester courses or the accelerated six-credit track.

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## The College of Humanities and Social Sciences

## Placement/Exemption

The student with no previous French study will take <u>FRNC 101</u> (4sh) as a prerequisite. Students with previous French study will be placed into the appropriate course level by means of a written departmental exam administered in the summer for entering freshmen and during the first week of the semester for other students. No student judged to be a native speaker of French will be allowed to enroll in any course below the 300 level, with the exception of <u>FRNC 254</u>.

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## The College of Humanities and Social Sciences

Study Abroad - Nancy, France

IUP has established a study abroad center in Nancy, France. All majors are encouraged to participate in the Study Abroad Program, especially those seeking the International Trade degree. Students have an option to participate in a full-year or one-semester (spring) program. A six-week summer session has also been added to the options available. Nonmajors may be accepted into any of the programs and, unless they have advanced proficiency, must enter the language courses offered in the *Cours pour étrangers* (Courses for Foreign Students). All foreign program credits are evaluated by the department as transfer credits. For further information about cost and application procedures, contact the French and German Department.

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## The College of Humanities and Social Sciences

#### **Internships**

The Department of French and German, through contacts with certain French companies and through its affiliation with the ICN (*Institut Commercial de Nancy*), is able to place interns in Paris and other sites in France. The internship (generally 6 to 12 semester hours) is viewed as a highly desirable culminating experience following study in Nancy. For further information, contact the department at least six months in advance.

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## The College of Humanities and Social Sciences

## **Bachelor of Arts-French**

College:		0
Foreign Language (included in major)		
Major: Required courses: FRNC 202	3sh 3sh 3sh 3sh 3sh 3sh 3sh 3sh	36
Controlled Elective: One course from the following list: FRNC 431, 432, 460, 462, 463 Any other 3sh from FRNC 253 and above (or study abroad) Free Electives: Total Degree Requirements:	3sh 3sh	33-35

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## The College of Humanities and Social Sciences

### **Minor-French**

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Required FRNC 201 FRNC 302 FRNC 331 FRNC 341 FRNC 353 FRNC 370	Courses:  College French I College French I Intermediate French Conversation French Grammar Intermediate French Composition Introduction to French Literature	3sh 3sh 3sh 3sh 3sh
Controlle	<b>d Elective:</b> e from the following: 373, 375, 376, 431, 432	3sh

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## The College of Humanities and Social Sciences

### **Bachelor of Arts-French for International Trade**

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: Any LBST math course except MATH 217 Social Science: ECON 121, PSYC 101, PLSC 101 Liberal Studies electives: BEDU 101/COSC 101/IFMG 101, ECON 122, MATH 214, no course with FRNC prefix		54-56
College: Foreign Language (included in major)		0
Major: Required courses: FRNC 202 College French II FRNC 254 Civilization of Modern France FRNC 331 Intermediate French Conversation FRNC 341 French Grammar FRNC 353 Intermediate French Composition FRNC 354 Business French FRNC 370 Introduction to French Literature FRNC 373 French Civilization FRNC 441 Advanced French Grammar Controlled Electives: (1) One course from the following: FRNC 375, 376 Two additional FRNC electives (advanced levels) Other Requirements:	3sh 3sh 3sh 3sh 3sh 3sh 3sh 3sh	<b>36</b> 3sh
Business sequence: (2)  ACCT 201 Accounting Principles I  ACCT 202 Accounting Principles II  ADMS 321 Business and Interpersonal Communications Introduction to Business Law Fin 310 Finance I  MGMT 310 Principles of Management MGMT 350 International Business MKTG 320 Principles of Marketing  Free Electives:	3sh 3sh 3sh 3sh 3sh 3sh 3sh	2 <b>4</b> 6-10
Total Degree Requirements:		124

- (1) Most students earn additional language semester hours (up to 18) in semester or year abroad programs.
- (2) Students not majoring in business may count a maximum of 30sh in business coursework toward the 124sh-degree minimum. Business semester hours in excess of 30 will be permitted only as semester hours beyond the 124 for graduation.

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## The College of Humanities and Social Sciences

## **Bachelor of Science in Education-K-12 French Education (\*)**

Liberal Studies: As outlined in Liberal Studies section with the following specifications:  Social Science: ANTH 110 or 211 and PSYC 101  Liberal Studies electives: no courses with FRNC prefix		53-55
College: Professional Education sequence: COMM 301 Technology for Learning and Instruction EDEX 301 Education of Students with Disabilities in Inclusive Secondary Settings  EDSP 202 Educational Psychology EDSP 377 Educational Tests and Measurements EDUC 242 Pre-student Teaching Clinical Experience I EDUC 342 Pre-student Teaching Clinical Experience II EDUC 441 Student Teaching EDUC 442 School Law EDUC 453 Teaching of Foreign Languages in the Elementary/Secondary Schools FDED 202 American Education in Theory and Practice	3sh 2sh 3sh 3sh 1sh 1sh 1sh 1sh 3sh (1) 3sh	32
Major: Required courses: FRNC 202	3sh 3sh 3sh 3sh 3sh 3sh 3sh 3sh	33
Other Requirements:		0
Free Electives:		4-6
Total Degree Requirements:		124

- (\*) See requirements leading to teacher certification, titled "Admission to Teacher Education," in the College of Education section of this catalog.
- (1) EDUC 453 offered only in fall semester.

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## The College of Humanities and Social Sciences

#### **College Language Requirements**

Students in the departments of the College of Humanities and Social Sciences and in most departments of the College of Natural Sciences and Mathematics must pass the intermediate sequence of a foreign language (<u>GRMN 251</u> and <u>GRMN 252</u>) or demonstrate by the CLEP exam in German that they have acquired the equivalent proficiency level. Students from the other colleges may elect to take two courses in German at the intermediate (III/IV) level toward fulfilling the requirement for Liberal Studies electives. Any student who chooses German can meet the requirement through enrollment in the traditional, 3-semester-hour courses or in the combined 6-semester-hour courses.

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## The College of Humanities and Social Sciences

#### **Study Abroad**

The department encourages all students who study German at IUP to consider study abroad for one or two semesters. German majors are strongly urged to study two semesters or one academic year at a German university. To provide this opportunity at a relatively modest cost, the university has arranged an exchange of students between Duisburg University and IUP. By participating in this or other approved programs, students can earn from 12 to 14 semester hours per semester. For further information regarding the cost and application procedures, contact the office of the dean of the College of Humanities and Social Sciences.

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## The College of Humanities and Social Sciences

### **Bachelor of Arts-German**

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Liberal Studies electives: no courses with GM prefix	53-55
College: Foreign language (included in major)	0
Major: Required courses: GRMN 221 Conversation III GRMN 222 Conversation IV GRMN 251 German III GRMN 252 German IV (1) GRMN 321 Advanced Conversation I GRMN 322 Advanced Conversation II GRMN 351 Advanced German Language I GRMN 352 Advanced German Language II Development of German Culture and Literature I GRMN 362 Development of German Culture and Literature II	2sh 2sh 3sh 3sh 1sh 1sh 3sh 3sh 3sh
<pre>Controlled electives: Other GM electives (advanced levels)</pre>	12sh (2)
Other Requirements:	0
Free Electives:	33-35
Total Degree Requirements:	124

- (1) GRMN 253 or GRMN 254 may be substituted for GRMN 252.
- (2) Department recommends at least one additional literature course (<u>GRMN 363-GRMN 371</u>) and one linguistics course (<u>GRMN 410</u> or in Germany).

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## The College of Humanities and Social Sciences

### **Bachelor of Arts-German for International Trade**

Liberal Studies: As outlined in Liberal Studies section with the following specifications:  Mathematics: MATH 121  Social Science: ECON 121  Liberal Studies electives: MATH 214, no courses with GRMN prefix			54-56
College: Foreign language (included in major)			0
Major: Required courses: GRMN 221	2sh 2sh 3sh 3sh 3sh 1sh 1sh 3sh 3sh		36
Controlled electives: Two additional GM electives (advanced levels)	6sh	(1)	
Other Requirements: Business sequence:  ACCT 201 Accounting Principles I ACCT 202 Accounting Principles II ADMS 321 Business and Interpersonal Communications BLAW 235 Introduction to Business Law ECON 122 Principles of Economics II OBUS 215 Business Statistics IFMG 300 Information Systems: Theory and Practice FIN 310 Finance I MGMT 311 Human Behavior in Organizations MGMT 360 Management and Production Concepts MKTG 320 Principles of Marketing	3sh 3sh 3sh 3sh 3sh 3sh 3sh 3sh 3sh		33
Free Electives:			0-1
Total Degree Requirements:		124	

(1) Most students earn additional language credits (usually 12-14) in semester study abroad.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

## The College of Humanities and Social Sciences

## **Bachelor of Science in Education-Secondary German Education (\*)**

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Social Science: PSYC 101 Liberal Studies electives: no courses with GRMN prefix		53-55
College: Professional Education sequence: (1)  COMM 301 Technology for Learning and Instruction  EDSP 202 Educational Psychology  EDSP 377 Educational Tests and Measurements  EDUC 242 Pre-student Teaching Clinical Experience I  EDUC 342 Pre-student Teaching Clinical Experience II  EDUC 441 Student Teaching  EDUC 442 School Law  EDUC 453 Teaching of Foreign Languages in the  Elementary/Secondary Schools  FDED 202 American Education in Theory and Practice	3sh 3sh 3sh 1sh 1sh 1sh 3sh	30
Major: Required courses:  GRMN 221	2sh 2sh 3sh 3sh (2) 1sh 1sh 3sh 3sh 3sh	33
Controlled electives: Other GRMN electives Other Requirements:	9sh	0
Free Electives:		6-8
Total Degree Requirements:		124

- (\*) See requirements leading to teacher certification in the catalog section on Academic Policies, <u>Admission to Teacher Education</u>
- (1) Special Education Competency Requirement: Revision pending will eliminate exam option and will require <u>EDEX</u> 301 (2sh).
- (2) GRMN 253 may be substituted for or taken in addition to GRMN 252.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

## The College of Humanities and Social Sciences

### Minor in German

Students completing 18 semester hours beyond <u>GRMN 152</u> will be recognized as having minored in German. Nine of the twelve semester hours must be taken at the 300 level with only three semester hours from the conversation sequence, <u>GRMM 221</u>, <u>GRMN 222</u>, <u>GRMN 321</u>, <u>GRMN 322</u>. This achievement will be noted on the student's transcript and thus provide more career flexibility.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

## The College of Humanities and Social Sciences

## **Department of Geography and Regional Planning**

Robert P. Sechrist, Chairperson; Begg, Bencloski, Benhart, Buckwalter, Okey, Patrick, G. Sechrist, Shirey, Watts; and professors emeriti Forbes, Gault, Miller, Tepper, Weber

The Department of Geography and Regional Planning offers three separate degree programs for the geographer, planner, and teacher..

Geography has several traditions of study. Two of the more important traditions are the study of relationships between humans and environment, or the ecological tradition, and the study of spatial organization, which involves the way people use space on the earth's surface. In both traditions the focus is on understanding regions of the world and the interactions within and between them. Geographers make important contributions to the understanding of all aspects of humankind's use of and impact on the earth's surface.

Regional Planning involves preparing for the future. The demands and effects of a large and growing population require that land use, resource use, settlement patterns, transportation systems, and economic activity be planned. Regional planning is concerned with the social, locational, and environmental aspects of these planning decisions. In the 1990s, economic development has become an important focus for planners.

The geography track in social science education offers a geography major equivalent for the student interested in teaching at the junior or senior high levels. New education requirements instituted for the commonwealth specify that geography be taught at all levels in Pennsylvania. Nationally,

geography is one of the core subject areas named in the National Education Goals program..

Geography and Regional Planning are in the same department, because "Planning is the art of which geography is the science." Employment opportunities for geographers and regional planners are excellent. Geography and planning occupations have been identified among the fastest growing job fields by *U.S. News and World Report*. Alumni occupy a wide variety of positions in government, business, industry, planning, and education. Environmental, locational, and spatial knowledge gained in the department's programs provide skills desperately needed in today's job market. Students interested in obtaining additional career information should visit the departmental office in Room 10, Leonard Hall or visit our website at <a href="www.chss.iup.edu/geography">www.chss.iup.edu/geography</a>.

Three degree programs are offered by the department:

- 1. Bachelor of Arts in Geography
- 2. Bachelor of Science in Regional Planning
- 3. Bachelor of Science in Social Science Education/Geography Track

In addition to geography core (GEOG), there are four tracks for specific geographic competencies: GIS/Cartographer, Environmental Geographer, Economic Geographer, and General Geographer. The regional planning (RGPL) major offers specific career opportunities in four somewhat parallel tracks: GIS/Cartographer, Environmental Planner, Economic Planner, and Town Manager.

A minor in geography or regional planning is appropriate for majors in all other fields of the natural and social sciences. Students in marketing and information systems will find a minor in either field relevant. A minor consists of 15 semester hours in GEOG or RGPL courses. The department suggests students take the core in either program if graduate study is anticipated.

Department resources, which include the James E. Payne GIS/Cartography Lab, offer access to advanced geographic analysis equipment and resources. The fully equipped computer lab also houses color printers, digitizers, large-format plotters and scanners, and appropriate mapping software. The most heavily used software includes ARC/INFO, ArcView, MapInfo, Atlas\*GIS, IDRISI, AutoCAD, and MiniCAD.

An important part of student education is involvement in community service projects. The Spatial Sciences Research Center (SSRC), Robert Wilson, director, coordinates these projects and student skills and interests. Students are usually compensated for their efforts. The SSRC has facilities for GIS database development and, GIS analysis, atlas production, map compilation, and cartographic production. Examples of SSRC projects include: Huntingdon County GIS; Cranberry Twp., Butler County GIS; Indiana Borough GIS; PA One Call System (call before you dig) GIS; Blacklick Creek Watershed Plan and Implementation; Pennsylvania Soil Mapping Project; Pennsylvania Department of Labor and Industry; United States Department of Transportation Pipeline Mapping Repository.

The department also houses the Census Documents and Data Library, coordinated by Rebecca Reinhold. In conjunction with Stapleton Library, holdings include population/housing/socioeconomic/mapping database CDs and other publications used for teaching, research, and planning in community service and local and county governments. The department is also an affiliate of the Bureau of Economic Analysis at the Census Bureau and a repository for USGS digital data.

The department houses both the National Council for Geographic Education (NCGE), which serves geography educators at all levels with activities and programs that address geography learning and instructional and research issues in North America, and the Pennsylvania Geographic Alliance (PGA), which is supported by the Pennsylvania Department of

Education. PGA provides leadership and professional development opportunities in geography teaching and learning in Pennsylvania. Ruth Shirey is executive director of NCGEOG and one of two PGA coordinators in Pennsylvania.

A strong internship program directed by John E. Benhart offers placement in industry, engineering, conservation, land management, and planning agencies at the local, state, and federal levels.

Specific core requirements in Geography and Regional Planning offer a structured approach for majors. Appropriate subfields or tracks are available in both programs to prepare students for graduate work and to support different career options for majors. There are four tracks for the geography major and four tracks for the regional planning major.

- Geography General Geography Track
- The General Geography Track encourages the major to sample courses from different subfields of the discipline. This track prepares the major for graduate work in geography and related fields of employment. Job options include report writing, research analysis, and data gathering. In government employment, the State Department, Department of Commerce, and the Census Bureau are significant places for geography skills.
- Geography Geographic Information Systems and Cartographer Track
- Regional Planning Geographic Information Systems and Cartographer Track

The Geographic Information Systems and Cartographer Track prepares students for employment as Geographic Information System Specialists, Facilities Managers, Cartographers, and Remote Sensing professionals. Coursework includes methods for identifying, modeling, and analyzing the spatial organization of human and environmental systems from both practical and theoretical perspectives. Data collection, spatial information management, and graphic presentation are integral skills taught in track

courses. Such skills could be used, for example, for analysis of wildlife habitat, utility facility management, or transportation system design and maintenance.

- Geography Economic Geographer Track
- Regional Planning Economic Developer Track

The Economic Track provides a broad framework of ideas and theories in addition to a task-oriented approach to location analysis. Site planners articulate the needs of the community for economic space, the demands for convenient transport, the role of private enterprise, and the management of growth. This interrelated group of courses is useful to students, because economic geographers and developers are expected to analyze the interactions of concepts and variables. Market analysis for the location of new shopping centers, for example, requires understanding of economic principles, population characteristics, and the local political milieu, all in a spatial context.

- Geography Environmental Geographer Track
- Regional Planning Environmental Planner Track

The Environmental Track is designed to prepare majors in geography or regional planning for careers in environmental fields or graduate study that leads to a variety of environmental positions. Students who elect this track will acquire knowledge of the physical and human processes that shape the environment, strategies for analyzing environmental issues, and concepts that underlie strategies for ameliorating environmental problems. The skills acquired in this track will enable students to assess the causes, consequences, and solutions to a wide variety of environmental issues such as water pollution, acid rain, or tropical deforestation.

• Regional Planning - Town Manager Track
The Town Manager Track is designed to prepare planning students for careers in local government and graduate work in public administration.
Students electing this track will become familiar with the structure,

operation, and actions of municipal government and the political, organizational, and institutional basis of municipal management and decision making. Skills acquired with this track will enable students to undertake a variety of analytic activities designed to describe, project, and prescribe courses of action for municipal improvement.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

## The College of Humanities and Social Sciences

## **Bachelor of Arts-Geography/General Geography Track**

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 121 or MATH 217 Liberal Studies electives: No courses with GE prefix.		53-58
College: Foreign Language Intermediate Level (1)		0-6
Major:		36
Required courses:  GEOG 213 GEOG 230 GEOG 231 GEOG 231 GEOG 411 GEOG 411 GEOG 412 Research Seminar	3sh 3sh 3sh 3sh 3sh	
Controlled electives:  One course from GEOG 251-GEOG 257  One course from GEOG 341-GEOG 342  Five courses (15 sh) from any GEOG courses  [only one GEOG 100 level permitted]	3sh 3sh 15sh	
Free Electives:		24-35
Total Degree Requirements:		124

(1) Intermediate-level Foreign Language may be included in Liberal Studies electives.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

## The College of Humanities and Social Sciences

## **Bachelor of Arts-Geography/GIS & Cartographer Track**

Liberal Studies: As outlined in Liberal Studies section with the following specifications:  Mathematics: MATH 121 or MATH 217  Liberal Studies electives: BEDU 101/COSC 101/IFMG 101, no courses with GEOG prefix	
College: Foreign Language Intermediate Level (1)	0-6
Major: Required courses:  GEOG 213	36 3sh 3sh 3sh 3sh 3sh
Controlled elective: One course from GEOG 251-GEOG 257 One course from GEOG 341-GEOG 342	3sh 3sh
Track Courses:  GEOG 313 Cartography II  GEOG 314 Map and Photograph Interpretation GEOG 316 Introduction to Geographic Information Systems GEOG 415 Remote Sensing GEOG 417 Technical Issues in GIS	3sh 3sh 3sh 3sh 3sh
Free Electives:	24-35
Total Degree Requirements:	124

(1) Intermediate-level Foreign Language may be included in Liberal Studies electives.

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This information is maintained by the Office of the Registrar, with approval from the University Senate. Last Modified at 8:45 PM on 09/11/2000.

2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

## The College of Humanities and Social Sciences

## Bachelor of Science-Regional Planning/GIS and Cartographer Track (@)

Liberal Studies: As outlined in Liberal Studies section with the following specifications:  Mathematics: MATH 121 or MATH 217  Liberal Studies electives: BEDU 101/COSC 101/IFMG 101 recommend no courses with RGPL prefix	<b>53-58</b> ded,
College: Foreign Language Intermediate Level (1)	0-6
Major: Required courses in Planning:  RGPL 213	42
Track Courses:  RGPL 313	24-29

- (@) Program revisions pending IUP Council of Trustees approval.
- (1) Intermediate-level Foreign Language may be included in Liberal Studies electives.

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This information is maintained by the Office of the Registrar, with approval from the University Senate. Last Modified at 8:57 PM on 09/11/2000.

2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

## The College of Humanities and Social Sciences

## **Bachelor of Arts--Geography/Economic Geographer Track**

Liberal Studies: As outlined in Liberal Studies swith the following specifications:  Mathematics: MATH 121 or MATH 217  Social Sciences: ECON 121  Liberal Studies electives: ECON 122, no courses	
College: Foreign Language Intermediate Level (1)	0-6
Major: Required courses:	36
GEOG 213 Cartography I GEOG 230 Cultural Geography GEOG 231 Economic Geography GEOG 411 History of Geography GEOG 412 Research Seminar	3sh 3sh 3sh 3sh 3sh
Controlled elective: One course from GEOG 251-GEOG 257 One course from GEOG 341-GEOG 342	3sh 3sh
Track Courses:  GEOG 331 Population Geography GEOG 332 Urban Geography GEOG 333 Trade and Transportation GEOG 334 Political Geography GEOG 464 Land Use Policy	3sh 3sh 3sh 3sh 3sh
Free Electives: ECON 383 Urban/Regional Economics recommended	22-34
Total Degree Requirements:	124

(1) Intermediate-level Foreign Language may be included in Liberal Studies electives.

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This information is maintained by the Office of the Registrar, with approval from the University Senate. Last Modified at 8:49 PM on 09/11/2000.

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## The College of Humanities and Social Sciences

## **Bachelor of Science-Regional Planning/Economic Developer Track** (@)

Liberal Studies: As outlined in Liberal Studies section with the following specifications:  Mathematics: MATH 121 or MATH 217  Social Sciences: ECON 121  Liberal Studies electives: ECON 122, no courses with RGPL prefix		
College: Foreign Language Intermediate Level (1)		0-6
Major: Required courses: RGPL 213	3sh	42
Other Requirements:		
Free Electives: RGPL 493 Internship (strongly recommended)	1-12sh	24-29
Total Degree Requirements:		124

- (@) Program revisions pending IUP Council of Trustees approval.
- (1) Intermediate-level Foreign Language may be included in Liberal Studies electives.

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## The College of Humanities and Social Sciences

## **Bachelor of Arts--Geography/Environmental Geographer Track**

Liberal Studies: As outlined in Liberal Studies section with the following specifications:  Mathematics: MATH 121 or MATH 217  Liberal Studies electives: BEDU 101/COSC 101/IFMG 101, recono courses with GEOG prefix	53-58 ommended,
College: Foreign Language Intermediate Level (1)	0-6
Major: Required courses:  GEOG 213	sh sh
	3sh 3sh (2)
Track Courses:  Five of the following:  GEOG 314 Map and Photograph Interpretation 3s  GEOG 316 Introduction to Geographic	sh sh sh sh sh sh
Free Electives:	24-35
Total Degree Requirements:	124

- (1) Intermediate-level Foreign Language may be included in Liberal Studies electives.
- (2) The same course cannot also count in the track.

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## The College of Humanities and Social Sciences

## **Bachelor of Science-Regional Planning/Environmental Planner Track** (@)

Liberal Studies: As outlined in Liberal Studies section with the following specifications:  Mathematics: MATH 121 or MATH 217  Liberal Studies electives: BEDU 101/COSC 101/IFMG 103 no courses with RGPL prefix	
College: Foreign Language Intermediate Level (1)	0-6
Major: Required courses in Planning: RGPL 213	3sh
Track Courses: Four of the following:  GEOG 335 Geography of Energy GEOG 341 Climatology GEOG 342 Physiography GEOG 343 Geography of Fresh Water Resources GEOG 440 Conservation: Environmental Analysis RGPL 314 Map and Photograph Interpretation RGPL 415 Remote Sensing  Free Electives: RGPL 493 Internship (strongly recommended)	3sh 3sh 3sh 3sh 3sh 3sh 3sh 3sh

- (@) Program revisions pending IUP Council of Trustees approval.
- (1) Intermediate-level Foreign Language may be included in Liberal Studies electives.

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Total Degree Requirements:

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124

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## The College of Humanities and Social Sciences

## **Bachelor of Science-Regional Planning/Town Manager Track** (@)

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Liberal Studies: As outlined in Liberal Studies section
                                                                           53-58
with the following specifications:
Mathematics: MATH 121 or MATH 217
Social Science: PLSC 111 recommended
Liberal Studies electives: <a href="GEOG 230">GEOG 230</a>, <a href="BEE">BE recommended</a>, no courses with RGPL prefix
                                            BEDU 101/COSC 101/IFMG 101,
College:
Foreign Language Intermediate Level (1)
                                                                            42
Required courses in Planning:
RGPL 213
RGPL 316
           Cartography I
                                                                  3sh
             Introduction to Geographic
             Information Systems
                                                                  3sh
             Introduction to Planning
                                                                  3sh
RGPL 352
RGPL 353
             Planning Methods
                                                                   3sh
             Planning Design I
                                                                   3sh
RGPL 412
             Research Seminar
                                                                   3sh
RGPL 454
             Planning Design II
                                                                   3sh
RGPL 458
             Land Use Law
                                                                   3sh
RGPL 464
             Land Use Policy
                                                                   3sh
RGPL 468
             Planning Theory
                                                                  3sh
Track Courses:
Either:
PLSC 354 and PLSC 355 Metropolitan Problems/
                                                               3sh
                   Intergovernmental Relations
PLSC 370/PLSC 371 Introduction to Public Administration/3sh
              Issues in Public Administration
And Two of the following:
GEOG 231
RGPL 332
             Economic Geography
                                                                  3sh
             Urban Geography
                                                                   3sh
RGPL 333
             Trade and Transportation
                                                                  3sh
                                                                            24-29
Free Electives:
PLSC 251
             State and Local Political Systems
             (recommended)
                                                                  3sh
RGPL 493
             Internship (strongly recommended)
                                                                  1-12sh
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#### Total Degree Requirements:

124

- (@) Program revisions pending IUP Council of Trustees approval.
- (1) Intermediate-level Foreign Language may be included in Liberal Studies electives.

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## The College of Humanities and Social Sciences

# **Bachelor of Science in Education Social Science Education/Geography Track**

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Social Science: GEOG 102, PSYC 101, ECON 121 Liberal Studies electives: ECON 122, SOC 337, and one of the following ANTH 271-ANTH 274 (SOC 271-SOC		54-55
College: Professional Education sequence:  COMM 301 Technology for Learning and Instruction EDEX 301 Education of Students with Disabilities in Inclusive Secondary Settings EDSP 202 Educational Psychology EDSP 377 Educational Tests and Measurements EDUC 242 Pre-student Teaching Clinical Experience I EDUC 342 Pre-student Teaching Clinical Experience II EDUC 441 Student Teaching EDUC 442 School Law EDUC 455 Teaching of Social Sciences in Secondary Schools FDED 202 American Education in Theory and Practice	3sh 2sh 3sh 3sh 1sh 1sh 1sh 1sh 3sh	32
Major: Required courses: GEOG 230 Cultural Geography GEOG 241 Physical Geography  Controlled electives: At least one course from each of the following three groups	3sh 3sh oups:	24
Environmental Geography:  GEOG 341 Geography of Freshwater Resources GEOG 342 Climatology GEOG 343 Physiography GEOG 440 Conservation: Environmental Analysis  Human Geography: GEOG 231 Economic Geography GEOG 331 Population Geography GEOG 332 Urban Geography GEOG 332 Trade and Transportation GEOG 334 Political Geography GEOG 336 Social Geography GEOG 337 Historical Geography GEOG 337 Geography GEOG 431 Geography GEOG 431 Geography GEOG 431 Geography of the American Indians	3sh 3sh 3sh 3sh 3sh 3sh 3sh 3sh 3sh 3sh	
History, Tools, and Techniques:  GEOG 213 GEOG 314 Map and Photo Interpretation GEOG 411 History of Geography GEOG 412 Research Seminar GEOG 415 Remote Sensing  Two of the following regional geography courses: GEOG 251 GEOG 252 GEOG 253 GEOG 253 GEOG 254 GEOG 254 GEOG 255 GEOG 255 GEOG 255 GEOG 256 GEOG 256 GEOG 256 GEOG 256 GEOG 257 GEOG 258 GEOG 259 GEOG 259 GEOG 250 GEOG 250 GEOG 251 GEOG 251 GEOG 252 GEOG 253 GEOG 253 GEOG 254 GEOG 255 GEOG 255 GEOG 256 GEOG 256 GEOG 256 GEOG 256	3sh 3sh 3sh 3sh 3sh 3sh 3sh 3sh 3sh 3sh	

Geography Electives	3sh	
Social science distribution requirements: The following courses are required:		15-18
PLSC 280 Comparative Government I: Western Political Systems	3sh	
HIST 203 U.S. History for Historians Plus one of the following options:	3sh 9-12sh	

Geography of South and Southeast Asia

6 additional semester hours in one social science field (history recommended) and 3sh in another.

9-12 additional semester hours in one social science field (history recommended), sufficient to meet the requirements for a minor.

3sh

Other Requirements: 0
Free Electives: 0

Total Degree Requirements: 125-129

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**GEOG 257** 

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## The College of Humanities and Social Sciences

## **Department of History**

Gary L. Bailey, Chairperson; Baumler, Bodle, Botelho, Cashdollar, Finegan, Franklin-Rahkonen, Landon, Marcus, McDonough, Ricketts, Shissler, Vogel, Wang, Whited; and professors emeriti Cord, Fricke, Gallanar, Gelbach, Goodrich, Hatfield, Lehman, Mastro, Mervine, Miller, Oliver, Rife, Smith, Wiley

Programs in history are designed to give both those who major in history in the College of Humanities and Social Sciences and those who concentrate in history in the College of Education and Educational Technology an opportunity to study in some depth the past story of peoples and their world. Degrees offered by the History Department are the Bachelor of Arts in History and the Bachelor of Science in Education with a major in Social Studies, concentrating in history. The first program is under the College of Humanities and Social Sciences, and the second is under the College of Education and Educational Technology.

The history student will find that the program is excellent preparation for government service, for pre-law training, for broad business opportunities, for work in varied fields of journalism, for archival positions, and for teaching. Not only the story of the people of the United States but also that of other peoples is covered, in the belief that global historical understanding is essential for the future of civilization.

Requirements for the degree of Bachelor of Arts in History are 33 semester hours in history. Requirements for the degree of Bachelor of Science in Education with a major in Social Studies, concentrating on history, are a minimum of 27 semester hours in history within the 54 semester hours required for social science certification. The requirement for a minor in history is 15 semester hours of courses with an HIST prefix. For majors in history programs, courses in history in Liberal Studies are applicable only if numbered 300 or higher. All programs should be planned with an advisor. Every major and concentrate in history will be advised by History Department faculty members.

Admission to <u>HIST 482</u> and <u>HIST 483</u>, initiation in the local chapters of Phi Alpha Theta and Pi Gamma Mu, participation in study tours and study abroad programs, and other activities should be investigated by every history student. The department is committed to the ideal of a broad liberal arts education.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

## The College of Humanities and Social Sciences

## **Bachelor of Arts-History**

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Liberal Studies electives: no courses with HIST prefix Humanities-History: Fulfilled by required courses in major		50-52
College: Foreign Language Intermediate Level (1)		0-6
Major: Required courses: HIST 200 HIST 201 Western Civilization Before 1600 Western Civilization Since 1600 U.S. History for Historians	3sh 3sh (2) 3sh (2) 3sh (2)	33
Controlled electives: HIST 480 Senior Seminar (3) Non-Western HIST course: Latin America, Africa, or Asia Five additional history courses (4)	3sh 3sh 15sh	
Other Requirements:		0
Free Electives:		33-41
Total Degree Requirements:		124

- (1) Intermediate-level Foreign Language may be included in Liberal Studies electives.
- (2) For students who have taken <u>HIST 195</u>, <u>HIST 210</u>, <u>HIST 212</u>, or <u>HI214</u> prior to becoming History majors, this course may not be appropriate. Consult History advisor before scheduling.
- (3) This requirement may be fulfilled by completing either the departmental honors program or graduate seminar with a concluding paper.
- (4) Courses selected from 300 and 400 level offerings; no more than six credits from HIST 493 as major elective.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

## The College of Humanities and Social Sciences

## **Bachelor of Arts-History/Pre-law Track**

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Liberal Studies electives: no courses with HIST prefix Humanities-History: Fulfilled by required courses in ma		50-52
College: Foreign Language Intermediate Level (1)		0-6
Major: Required courses: HIST 200 Introduction to History HIST 201 Western Civilization Before 1600 HIST 202 Western Civilization Since 1600 HIST 203 U.S. History for Historians	3sh 3sh (2) 3sh (2) 3sh (2)	
Controlled electives: HIST 480 Senior Seminar (3) Non-Western HIST course: Latin America, Africa, or Asia Five additional history courses (4)	3sh 3sh 15sh	
Other Requirements: Pre-law interdisciplinary track Seven courses, including at least one from each of six areas: Business: BLAW 235, ACCT 201, ACCT 202 Criminology: CRIM 210, CRIM 260, CRIM 357 Economics: ECON 121, ECON 122, ECON 332 English: ENGL 212, ENGL 220, ENGL 310 Philosophy: PHIL 101, PHIL 222, PHIL 450 Political Science: PLSC 358, PLSC 359, PLSC 361		6-21
Free Electives:		12-32
Total Degree Requirements:		124

- (1) Intermediate-level Foreign Language may be included in Liberal Studies electives.
- (2) For students who have taken <u>HIST 195</u>, <u>HIST 210</u>, <u>HIST 212</u>, or <u>HIST 214</u> prior to becoming History majors, this course may not be appropriate. Consult History adviser before scheduling.
- (3) This requirement may be fulfilled by completing either the departmental honors program or graduate seminar with a concluding paper.
- (4) Courses selected from 300 and 400 level offerings; no more than six credits from HIST 493 as major elective.

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## The College of Humanities and Social Sciences

# **Bachelor of Science in Education-Social Science Education/History Track** (\*)

Liberal Studies: As outlined in Liberal Studies section with the following specifications:  Humanities-History: Fulfilled by required courses in major Social Science: PSYC 101, ECON 121, and ANTH 110  Liberal Studies electives: ECON 122, GEOG 230, and either SOC 337 or SOC 362; no courses with HIST prefix			
College:			32
COMM 301 EDEX 301 EDSP 202 EDSP 377 EDUC 242 EDUC 342	1 Education sequence: (1) Technology for Learning and Instruction Education of Students with Disabilities in Inclusive Secondary Settings Educational Psychology Educational Tests and Measurements Pre-student Teaching Clinical Experience I Pre-student Teaching Clinical Experience II	3sh 2sh 3sh 3sh 1sh	
EDUC 441 EDUC 442 EDUC 455 FDED 202	Student Teaching School Law Teaching of Social Sciences in Secondary Schools American Education in Theory and Practice	12sh 1sh 3sh 3sh	
Major: (1)	(2) story courses:		27
HIST 200 HIST 201 HIST 202 HIST 203 HIST 480	Introduction to History Western Civilization Before 1600 Western Civilization Since 1600 United States History for Historians Senior Seminar in History	3sh 3sh (3) 3sh (3) 3sh (3)	
One course	History elective: from the fields of Middle East, Africa, atin America at the 300 level or higher	3sh	
	ectives: ory courses at the 300 level or higher, from United States history	9sh	
Required Sc GEOG XXX PLSC 111 PLSC 280	ocial Science distribution: 200-level or higher Geography course American Politics Comparative Government I:	3sh 3sh	9-12
PLSC 285	Western Political Systems or Comparative Government II:	3sh	
SOC 231	Non-Western Political Systems Contemporary Social Problems	3sh	3sh (4)
Free Electi	ves:		1-5
Total Degre	ee Requirements:		124

- (\*) See requirements leading to teacher certification in the catalog section on Academic Policies, <u>Admission to Teacher Education</u>
- (1) Students entering secondary social studies education must present the following in order to gain admission: a. A 2.75 GPA with grades of C or better in history and social science courses required for certification.

- b. A letter of admission to teacher certification from the College of Education and Educational Technology; Acts 34 and 151 must be current at all times. (2) Eligibility for student teaching and certification in secondary social studies education (history concentration) requires a cumulative GPA of 2.75 and a grade of C or better in history courses and in the required social science distribution courses.
- (3) For students who have taken <u>HIST 195</u>, <u>HIST 210</u>, <u>HIST 212</u>, or <u>HIST 214</u> prior to becoming History majors, this course may not be appropriate. Consult History adviser before scheduling.
- (4) <u>SOC 231</u> required only if <u>SOC 237</u> or <u>SOC 362</u> are not taken as Liberal Studies electives.

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## The College of Humanities and Social Sciences

## **Department of Journalism**

Robert H. Russell, Chairperson; Drager, Ellerbach, Heilman, Jesick, Mukasa; and professors emeriti DeGeorge, Furgiuele, Truby

Students interested in a career in news-editorial or public relations fields, with opportunities in such related areas as advertising, desktop publishing, computer-assisted reporting, and marketing, should enjoy this innovative, flexible program. The journalism major combines journalism elective courses, the student's choice of a variety of courses from other university departments, plus internships which provide on-the-job experience.

The IUP journalism major is flexible for the individual student, who decides, with an advisor, what directions his or her education will take for a mass communication career.

A student wishing to enter the program becomes a journalism major in the College of Humanities and Social Sciences. Then, the student chooses an individual program within a large group of elective journalism courses, plus a much larger group of courses from various other areas of the university. A student who completes the major graduates with a B.A. in Journalism. Because journalism itself covers all areas of life, the journalism major covers many areas of study preparation. There are only four required courses, so the student is free to mold the program to his/her own special interests through both major and free electives.

The journalism major will use journalism courses to fulfill the minimum of 30 hours required for the major. All journalism majors must complete the intermediate sequence of a foreign language. This may be done in one of three ways: by examination, by earning credit in third and fourth levels of a foreign language, or by completing four levels of a new language. If the last procedure is used, the two beginning foreign language courses may be applied as free electives to the total number of credits needed for graduation.

The Department of Journalism offers an eighteen-credit minor designed to complement any major. Three three-credit courses are required: <u>JRNL 105</u>: Journalism and Mass Media; <u>JRNL 102</u>: Basic Journalistic Skills; and <u>JRNL 120</u>: Journalistic Writing. The remaining nine credits may be taken from the following list of Journalism major courses: <u>JRNL 326</u>, <u>JRNL 338</u>, <u>JRNL 344</u>, <u>JRNL 347</u>, <u>JRNL 375</u>, and designated Special Topics courses. Internship credits do not apply toward the eighteen-credit minor; however, a student in the minor program may take an internship and apply the credits as free electives.

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## The College of Humanities and Social Sciences

## **Course Sequence**

The journalism faculty offers the following operational policy for its course sequence and prerequisites. The basic idea is for students to take Level I courses prior to Level II courses, etc. We ask that special attention be given to course prerequisites to avoid scheduling students without proper experience into courses. We do retain flexibility of waiving sequence and prerequisites in individual cases.

```
Level I
<u>JRNL 102</u>
<u>JRNL 105</u>
                   Basic Journalism Skills (required for all journalism majors and minors)
                   Journalism and Mass Media (required for all journalism majors and minors) Journalistic Writing (for journalism minors and nonmajors)
JRNL 120
JRNL 220
                   Writing for the Print Media (required for all journalism majors)
Level II
<u>JRNL 243</u>
                   History of American Press
JRNL 250
JRNL 321
                   Women and the Press
                   Feature Writing
JRNL 326
                   Public Relations I
JRNL 327
                   Layout, Design, and Production
JRNL 328
                   News Reporting (required for all journalism majors)
                   Editing
JRNL 337
JRNL 34\overline{4}
                   Issues and Problems
JRNL 345
JRNL 375
                   Sports Journalism
                   World News Coverage
JRNL 393
                   Document Design I
Level III
<u>JRNL 347</u>
                   Journalism Law
JRNL 348
                   Editorial Page
JRNL 423
                   Management in Mass Communications
JRNL 430
                   Public Opinion and the News Media
<u>JRNL 446</u>
                   Research Methods in Journalism
JRNL 450
JRNL 482
                   Advertising Writing Independent Study
JRNL 490
                   Public Relations II
JRNL 491
                   Presentation Making
<u>JRNL 492</u>
                   Problem Solving in PR
JRNL 493
                   Internship
<u>JRNL 494</u>
                   Document Design II
```

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## The College of Humanities and Social Sciences

## **Bachelor of Arts-Journalism**

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Liberal Studies electives: no courses with JRNL prefix		53-55
College: Foreign Language Intermediate Level (1)		0-6
Major: Required courses:  JRNL 102 Basic Journalistic Skills JRNL 105 JRNL 220 Writing for the Print Media JRNL 328 News Reporting	3sh 3sh 3sh 3sh	30
Controlled electives: Other JRNL courses	18sh	(2)
Other Requirements: Department recommends a planned program of dual major, minor(s), or electives. (3) (4)		0
Free Electives:		33-41
Total Degree Requirements:		124

- (1) Intermediate-level Foreign Language may be included in Liberal Studies electives.
- (2) Maximum of six credits Internship applied to major.
- (3) Students may take no more than 15sh outside the College of Humanities and Social Sciences without prior approval of advisor.
- (4) Majors in the public relations sequence should make every effort to schedule MKTG 320, MKTG 433, and ADMS 321.

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## The College of Humanities and Social Sciences

#### **Minor-Journalism**

Minor:

Required courses:

JRNL 102 Basic Journalistic Skills 3sh (2)

JRNL 105 Journalism and Mass Media 3sh (2)

JRNL 120 Journalistic Writing 3sh (2)

Three controlled electives from following list: 9sh

JRNL 243, JRNL 326, JRNL 338, JRNL 344, JRNL 347, JRNL 375, JRNL 481 (3)

- (1) Internship credits do not apply toward the eighteen-credit minor; however, a student in the minor program may take an internship and apply the credits as free electives.
- (2) The above three courses are to be taken in sequence.
- (3) Minors may substitue only with departmental permission.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

## The College of Humanities and Social Sciences

## **Department of Philosophy and Religious Studies**

Albert E. Bouffard, Chairperson; Begres, Boone, Caraway, Chandler, Ferrara, Gibson, Holm, Lin, Mlecko, Montgomery, Rubenstein, Smith, Yirenkyi; and professors emeriti Hermann, Schaub

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## The College of Humanities and Social Sciences

#### **Philosophy**

The program in philosophy is designed to provide the student with a capacity for thinking clearly, a critical attitude, and the ability to reason theoretically.

#### Major

The major offers the background required for graduate work in philosophy. Those whose primary interests are in other disciplines will find philosophy courses which relate directly to their fields on a theoretical level. Both the minor and double major are especially desirable for their reflective benefits and because of the essentially interdisciplinary nature of philosophy.

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## The College of Humanities and Social Sciences

## **Bachelor of Arts-Philosophy**

```
Liberal Studies: As outlined in Liberal Studies section
                                                                            53-55
with the following specifications:
Liberal Studies electives: no courses with PHIL prefix
                                                                             0 - 6
Foreign Language Intermediate Level (1)
                                                                             30
Major:
Required courses:
PHIL 221
PHIL 222
                   Symbolic Logic I
                                                                             3sh
                   Ethics
                                                                             3sh
Controlled Electives: eight PHIL courses:
                                                                        24sh
PHIL 324 or 325 and one other from list: (6sh)
PHIL 324 History of Philosophy I
PHIL 325 History of Philosophy II
         PHIL 326 Phenomenology and Existentialism
PHIL 410 Contemporary Analytic Philosophy PHIL 420 or 421 and one other from list: (6sh)
         PHIL 330 Philosophy of Science
         PHIL 420 Metaphysics
         PHIL 421 Theory of Knowledge
         PHIL 460 Philosophy of Language
Four other PHIL courses (12sh) (may be from the above lists)
          (with restrictions) (2) (3)
Other Requirements:
                                                                             0
Free Electives:
                                                                             33-41
                                                                             124
Total Degree Requirements:
```

- (1) Intermediate-level Foreign Language may be included in Liberal Studies electives.
- (2) No more than four 100-200 level courses may be counted toward the major. Only PHIL courses may be counted toward the major. Unless otherwise indicated in the Course Descriptions, all 300-400 level courses require either philosophy major or minor status, junior or senior standing, or permission of the instructor.
- (3) No more than 9 non-classwork semester hours may be counted toward the major. Non-classwork semester hours include independent study, independent honors project, and internship in philosophy.

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## The College of Humanities and Social Sciences

## Bachelor of Arts-Philosophy/Pre-law Track

```
Liberal Studies: As outlined in Liberal Studies section
                                                                               53-55
with the following specifications:
Liberal Studies electives: no courses with PHIL prefix
                                                                                0 - 6
Foreign Language Intermediate Level (1)
Major:
                                                                                30
Required courses:
            Informal Logic: Methods of Critical
         Thinking
                                                                      3sh
PHIL 222
            Ethics
                                                                      3sh
Controlled Electives: eight PHIL courses:
                                                                24sh
PHIL 324 or 325 and one other from list: (6sh)
          PHIL 324 History of Philosophy I
          PHIL 325 History of Philosophy II
          PHIL 326 Phenomenology and Existentialism PHIL 410 Contemporary Analytic Philosophy
PHIL 420 or 421 and one other from list: (6sh)
          PHIL 330 Philosophy of Science
          PHIL 420 Metaphysics
          PHIL 421 Theory of Knowledge
          PHIL 460 Philosophy of Language
Four other PHIL courses (12sh) (may be from the above lists) (with restrictions) (2) (3)
                                                                               6-21
Other Requirements: Pre-law interdisciplinary track
Seven courses, including at least one
from each of six areas:
Business: <u>BLAW 235</u>, <u>ACCT 201</u>, <u>ACCT 202</u>
Criminology: <u>CRIM 210</u>, <u>CRIM 260</u>, <u>CRIM 357</u>
Economics: <u>ECON 121</u>, <u>ECON 122</u>, <u>ECON 332</u>
English: ENGL 212, ENGL 220, ENGL 310
            HIST 320,
History:
                        HIST
                              321, <u>HIST 346</u>
Political Science:
                        PLSC 358, PLSC 359, PLSC 361
                                                                               12-29
Free Electives:
Total Degree Requirements:
                                                                               124
```

- (1) Intermediate-level Foreign Language may be included in Liberal Studies electives.
- (2) No more than three 100-200 level courses may be counted toward the major. Only PH courses may be counted toward the major. Unless otherwise indicated in the Course Descriptions, all 300-400 level courses require junior or senior standing or permission of the instructor. This prerequisite applies both to Philosophy majors and to majors in any other discipline.
- (3) No more than nine non-classwork credits may be counted toward the major. Non-classwork credits include independent study, independent honors project, and internship in philosophy.

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## The College of Humanities and Social Sciences

#### **Individually Designed Philosophy Minor**

As a minor, philosophy has much to offer in helping individuals of various backgrounds better understand the fundamental assumptions of their disciplines. For that reason, the minor in philosophy will be individually designed to meet special career needs and personal interests. Selection of courses will be accomplished through discussions with and approval of the department advisor. Students must expect careful planning in any program approved. For further explanation and suggestions, see explanation under Philosophy Minor program requirements and consult department advisor.

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## The College of Humanities and Social Sciences

## **Liberal Studies Offerings**

The Philosophy program's Liberal Studies courses are all introductory in nature; none of them presupposes any philosophical background. The student may choose from the following PHIL 101: Informal Logic; PHIL 120: Introduction to Philosophy; PHIL 221: Introduction to Symbolic Logic; PHIL 222: Ethics; PHIL 223: Philosophy of Art.

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## The College of Humanities and Social Sciences

## **Minor--Philosophy**

Minor--Philosophy

Controlled Electives:
Five PHIL courses (with restrictions) (1) (2) 15sh

- (1) No more than three 100-200 level courses may be counted toward the minor. Only PHIL courses may be counted toward the minor. Unless otherwise indicated in the Course Descriptions, all 300-400 level courses require either philosophy major or minor status, junior or senior standing, or permission of the instructor.
- (2) No more than 3 non-classwork semester hours may be counted toward the minor. Non-classwork semester hours include independent study, independent honors project, and internship in philosophy.

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## The College of Humanities and Social Sciences

## **Pre-Law Track**

The Department of Philosophy and Religious Studies participates in the University Pre-Law Track Program whereby a student majors in one of several academic disciplines including philosophy and also meets the pre-law track requirements. Students interested in the philosophy major/pre-law track should consult the departmental pre-law advisor. Philosophy courses included in the pre-law track program are as follows: PHIL 101: Informal Logic; PHIL 222: Ethics; and PHIL 450: Philosophy of Law.

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## The College of Humanities and Social Sciences

#### **Religious Studies**

The program in Religious Studies is designed to provide a balanced, nonsectarian, cross-cultural approach leading to a better understanding of the phenomenon of religion in human experience. It emphasizes an interdisciplinary approach by a) requiring religion-related courses outside Religious Studies and by b) encouraging the minor or a double major, rather than a single major in Religious Studies.

The program is valuable for those planning careers in religious education, religious journalism, or religious broadcasting. The program also provides an excellent background for graduates planning to enter Catholic, Jewish, or Protestant seminaries. Additionally, Religious Studies is a good complement to majors in such fields as Anthropology, English, Fine Arts, History, International Studies, Music, Philosophy, Political Science, Psychology, and Sociology. Religious Studies is one significant way to integrate course studies within the university curriculum.

In addition to the 24 semester hours of Religious Studies courses in the major, 6 semester hours must be taken from a number of courses offered by other departments which complement those offered in Religious Studies. Opportunity for interdisciplinary and cross-cultural study is implicit in the study of religious themes and is required in the Religious Studies Program at IUP. Revisions are pending in the Religious Studies program.

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## The College of Humanities and Social Sciences

## **Bachelor of Arts-Religious Studies**

```
Liberal Studies: As outlined in Liberal Studies section
                                                                           53-55
with the following specifications:
Liberal Studies electives: no courses with RLST prefix
                                                                           0-6
Foreign Language Intermediate Level (1)
                                                                           30
Major:
Controlled electives: (2)
                             RLST 100 or RLST 110
RLST 210 or RLST 250
One course from list A:
                                                                   3sh
One course from list B:
                                                                   3sh
                             RLST 370 or RLST 375
One course from list C:
One course from list D: <u>RLST 380</u>, <u>RLST 410</u>, or <u>RLST 440</u> 3sh Four additional RLST courses (3)
Two courses from religion-related courses (3)
                                                                   6sh
Other Requirements:
Free Electives:
                                                                           33-41
                                                                           124
Total Degree Requirements:
```

- (1) Intermediate-level Foreign Language may be included in the Liberal Studies electives.
- (2) Other courses may be approved in consultation with advisor.
- (3) Consult Religious Studies advisor.

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## The College of Humanities and Social Sciences

#### **Minor--Religious Studies**

The requirements for a Minor in Religious Studies are 15sh:

- 1. 12sh must be taken from the Religious Studies offerings, which include certain required courses (see below).
- 2. 3sh must be taken outside the Religious Studies offering but in "religion-related" courses.
- 3. No more than three non-classwork credits may count toward minor.

Consult advisor in Religious Studies for choices.

```
      RLST 100 or RLST 110
      3sh

      RLST 370 or RLST 375
      3sh

      RLST 380 or RLST 410 or RLST 440
      3sh

      Elective in Religious Studies (1)
      3sh

      Religion-related course (1)
      3sh
```

(1) Consult Religious Studies advisor.

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## The College of Humanities and Social Sciences

#### **Liberal Studies Offerings**

The Religious Studies program's Liberal Studies courses are all introductory in nature; none presupposes any Religious Studies background. The student may choose from the following: <u>RLST 100</u>: Introduction to Religion; <u>RLST 250</u>: Understanding the Bible; <u>RLST 290</u>: Christianity.

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## The College of Humanities and Social Sciences

## **Department of Political Science**

Steven F. Jackson, Chairperson; Bahgat, Chambers, Dejene, Kuffner-Hirt, Lynch, Sitton, Strachan, Torges; and professors emeriti Chaszar, Morris, Palmer, Smith

Political scientists focus upon political systems, including the effect of environment on the system, inputs, the decision-making agencies which render binding public policies, and system outputs. Approaches to the study of government and politics include the normative approach, in which philosophical attention centers on values by asking the question "What ought to be?" and the behavioral approach, in which an attempt is made to develop verifiable theories through scientific methods by asking the questions "How" and "Why?"

Students majoring in political science have employment opportunities in federal, state, and local governments and with private civic groups, interest groups, and political groups. Students who go on to graduate work find appointments at higher levels and in college teaching. Students graduating in political science, as in any of the social sciences, are in demand by employers in business and industry. Students completing the Political Science Internship Program have experienced considerable success in finding employment upon graduation. The political science major is also especially suitable for the pre-law student.

Degrees offered by the Political Science Department are the Bachelor of Arts in Political Science, in Government and Public Service, and in Political Science Pre-Law track. An interdisciplinary major and a minor in International Studies are sponsored by the Political Science Department. The department also offers a minor in political science.

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## The College of Humanities and Social Sciences

#### **Bachelor of Arts-Political Science**

```
Liberal Studies: As outlined in Liberal Studies section
                                                                         53-55
with the following specifications:
Social Science: PLSC111
Liberal Studies electives: no courses with PLSC prefix
College:
                                                                          0-6
Foreign Language Intermediate Level (1)
                                                                          33
Major:
Required courses:
PLSC 101
            World Politics
                                                                3sh (2)
PLSC 111
                                                                *sh (3)
            American Politics
                                                                      30sh
Controlled electives:
At least one course in three of first four areas:
American Studies: PLSC 251, PLSC 300, PLSC 346, PLSC 350,
PLSC 351, PLSC 353, PLSC 354, PLSC 355, PLSC 356, PLSC 357, PLSC 358, PLSC 359

Political Theory: PLSC 360, PLSC 361, PLSC 362
Public Policy and Administration: PLSC 250, PLSC 370,
PLSC 371, PLSC 444
International Studies: PLSC 280, PLSC 282, PLSC 283,
PLSC 285, PLSC 320, PLSC 321, PLSC 380, PLSC 382, PLSC 383, PLSC 384, PLSC 385, PLSC 386, PLSC 387, PLSC 388, PLSC 389 (4)
General Political Science: PLSC 300 (strongly recommended),
PLSC 377, PLSC 480, PLSC 481, PLSC 482, PLSC 485, PLSC 493
                                                                         15 - 27
Other Requirements:
Second major, minor, or concentration as approved by advisor
with maximum of 15 credits outside College of Humanities and
Social Sciences unless specifically approved
Free Electives:
                                                                          3-23
Total Degree Requirements:
                                                                         124
```

- (1) Intermediate-level Foreign Language may be included in Liberal Studies electives.
- (2) PLSC 101 satisfies non-Western requirement.
- (3) Credit for PLSC 111 is counted in the Liberal Studies requirements.
- (4) PLSC 280 and/or PLSC 285 recommended as prerequisite to PLSC 380 through PLSC 389.

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## The College of Humanities and Social Sciences

#### **Bachelor of Arts-Political Science/Pre-Law Track**

```
Liberal Studies: As outlined in Liberal Studies section
                                                                             53-55
with the following specifications:
Social Science: PLSC 111
Liberal Studies electives: no courses with PLSC prefix
College:
                                                                              0-6
Foreign Language Intermediate Level (1)
                                                                             33
Major:
Required courses:
PLSC 101
           World Politics
                                                                    3sh (2)
PLSC 111
                                                                    *sh (3)
            American Politics
Controlled electives:
                                                                          30sh
At least one course in three of first four areas:
American Studies: PLSC 251, PLSC 300, PLSC 346, PLSC 350,
PLSC 351, PLSC 353, PLSC 354, PLSC 355, PLSC 356, PLSC 357, PLSC 358, PLSC 359

Political Theory: PLSC 360, PLSC 361, PLSC 362
Public Policy and Administration: PLSC 250, PLSC 370,
PLSC 371, PLSC 444
International Studies: PLSC 280, PLSC 282, PLSC 283,
PLSC 285, PLSC 320, PLSC 321, PLSC 380, PLSC 382, PLSC 383, PLSC 384, PLSC 385, PLSC 386, PLSC 387, PLSC 388, PLSC 389 (4)
General Political Science: PLSC 300 (strongly recommended),
PLSC 377, PLSC 480, PLSC 481, PLSC 482, PLSC 485, PLSC 493
Other Requirements: Pre-law interdisciplinary track
                                                                             15 - 21
Seven courses, including at least one
from each of six areas:
                         ACCT
Business: <u>BLAW 235</u>,
Criminology: CRIM 210, CRIM 260, CRIM 357
Economics: ECON 121, ECON 122, ECON 332
English: ENGL 212, ENGL 220, ENGL 310
History: HIST 320, HIST 321, HIST 346
Philosophy: PHIL 101, PHIL 222, PHIL 450
Free Electives:
                                                                             12-26
Total Degree Requirements:
                                                                             124
```

- (1) Intermediate-level Foreign Language may be included in Liberal Studies electives.
- (2) PLSC 101 satisfies non-Western requirement.
- (3) Credit for PLSC 111 is counted in the Liberal Studies requirements.
- (4) PLSC 280 and/or PLSC 285 recommended as prerequisite to PLSC 380 through PLSC 389.

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## The College of Humanities and Social Sciences

#### **Bachelor of Arts-Government and Public Service**

```
Liberal Studies: As outlined in Liberal Studies section
                                                                          53-55
with the following specifications:
Mathematics: MATH 217
Social Science: ECON 121, PSYC 101, SOC 151
Liberal Studies electives:
                                COSC 101,
no courses with PLSC prefix
College:
                                                                           0-6
Foreign Language Intermediate Level (1)
                                                                           39
Major:
Required courses:
<u>PLSC 111</u>
            American Politics
                                                                  3sh
PLSC 250
PLSC 251
            Public Policy
                                                                  3sh
            State and Local Political Systems
                                                                  3sh
PLSC 300
PLSC 370
PLSC 371
            Research and Methods in Political Science
                                                                 3sh
            Introduction to Public Administration
                                                                 3sh
             Issues in Public Administration
                                                                 3sh
             Social Psychology
PSYC 330
                                                                  3sh
ECON 335
             Public Finance
                                                                  3sh (2)
             State and Local Finance
                                                                  3sh (2)
SOC 458
                                                                3sh (3)
             Political Sociology
Controlled electives:
                                                                       9sh
Three courses from list: <u>PLSC 350</u>, <u>PLSC 351</u>, <u>PLSC 352</u>, <u>PLSC 353</u>, <u>PLSC 354</u>, <u>PLSC 355</u>, <u>PLSC 358</u>, <u>PLSC 377</u>,
PLSC 444, PLSC 481, PLSC 482, PLSC 485, PLSC 493
Other Requirements:
                                                                           21
One course from communications areas
                                                                 3sh
(English, Journalism, Communications Media)
as approved by advisor
Interdisciplinary minor: Government Management, Planning,
Personnel Administration, Financial Administration
Free Electives:
                                                                           3-11
Total Degree Requirements:
                                                                           124
```

- (1) Intermediate-level Foreign Language may be included in the Liberal Studies electives.
- (2) Approved substitutes for ECON 335 and ECON 336: ECON 283, ECON 332, ECON 333, ECON 373.
- (3) Approved substitutes for SOC 458: SO335, SOC 345, SOC 303.

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## The College of Humanities and Social Sciences

### **Bachelor of Arts-Political Science/International Studies**

Liberal Studies: As outlined in Liberal Studies section with the following specifications:  Social Science: PLSC 111  Liberal Studies electives: no courses with PLSC prefix	53-55
College: Foreign Language Intermediate Level (1)	0-6
Major: Required courses: PLSC 101 World Politics PLSC 111 American Politics Interdisciplinary sequence Cultural specialization sequence	3sh *sh (2) 15sh (3) 15sh (4)
Other Requirements:	0 (5)
Free Electives:	30-38
Total Degree Requirements:	124

- (1) Intermediate-level Foreign Language may be included in Liberal Studies electives. Only courses 300 level and beyond may count in the cultural specialization sequence.
- (2) Credit for PLSC 111 is included with Liberal Studies.
- (3) The interdisciplinary sequence includes an introductory or comparative international course from each of five social science disciplines: anthropology, economics, geography, history, political science, and sociology. Selection depends on goal(s) of major and should be planned in consultation with the International Studies advisor.
- (4) The specialization sequence focuses on one area or culture and three disciplines: economic systems, political systems, language, literature, history, geography. Currently, three specializations are offered: Latin America, the Far East, and Soviet Studies. Consult with advisor for planning course selection.
- (5) Majors are strongly encouraged to take advantage of the study abroad opportunities available through IUP department programs and exchange opportunities available through the Center for International Studies.

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## The College of Humanities and Social Sciences

#### **Minor-Political Science**

Minor 15

Required courses:

PLSC 101<br/>PLSC 111World Politics3shAmerican Politics3sh

Controlled electives:

Three additional PLSC courses 9sh

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## The College of Humanities and Social Sciences

#### **Minor-International Studies**

Minor 18

Required courses:

PLSC 101World Politics3shPLSC 111American Politics\*sh (1)

Controlled electives:

Interdisciplinary sequence (see major) 15sh

(1) Semester hours counted with Liberal Studies Social Sciences.

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### The College of Humanities and Social Sciences

### **Department of Sociology**

Stephen K. Sanderson, Chairperson; Ackerman, Chang, Darling, Gondolf, Grant, Heasley, Heckert, Holtz, Kanazawa, Nowak, Sanderson, Schneider, Snyderr

The Department of Sociology seeks to develop both the scientific and humanistic foundations of sociology, to educate the wider community as to the significance of sociological knowledge, to apply sociological knowledge to current social problems, and to advance the profession by promoting the welfare of individuals and society. The discipline of sociology focuses primarily on the analysis of modern industrial societies by examining their basic patterns of social organization, the various changes that occur within these patterns, and the impact of the patterns on individual thought and action. Students are prepared for employment in human service fields or for graduate study in sociology or related fields.

Students majoring in sociology may select one of three tracks: General Sociology, Human Services, and Applied Social Research. The general track attempts to broadly educate those students who may wish to pursue graduate training in sociology and make sociology a career and profession. Because of its flexibility, it is also appropriate for students who want to pursue double majors that would include such fields as psychology or criminology. The general track gives students the broadest possible training in sociology. Students graduating with majors in general sociology often find employment in business, industry, and government.

The Human Services track in sociology seeks to help students understand the causes of many of the problems that plague modern societies, such as poverty, racial discrimination, substance abuse, and domestic violence. It is designed to provide students with the knowledge and skills necessary to become practitioners in various human services areas (e.g., juvenile delinquency, medical sociology, gerontology, and interpersonal dynamics and family sociology).

The Applied Social Research track emphasizes the development of research and assessment skills in students. Such skills are important in carrying out program assessments, needs assessments, program development, and other activities that focus on gathering, analyzing, and interpreting data important for policymakers.

The department also prepares teachers for secondary school social studies with a concentration in sociology. The program leads to the degree Bachelor of Science in Education. With its emphasis on patterns of social organization in modern industrialized societies, sociology provides a solid foundation for teaching social science at the secondary level. Minors are available in sociology and in applied social research.

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## The College of Humanities and Social Sciences

### **Bachelor of Arts--Sociology/General Sociology Track** (@)

with the f Mathematics Social Scient	udies: As outlined in Liberal Studies section ollowing specifications: s: MATH 217 recommended ence: SOC 151 udies electives: no courses with SOC prefix		53-55
College: Foreign La	nguage Intermediate Level (1)		0-6
Major:			30
Required co SOC 151 SOC 320 SOC 380	ourses: Principles of Sociology Sociological Theory Social Research Methods	*sh 3sh 3sh	(2)
One of the SOC 361	following courses: Social Stratification	3sh	
SOC 362	Racial and Ethnic Minorities		3sh
SOC 363	Sociology of Sex and Gender	3sh	
	ne <i>different</i> course from four lowing substantive areas:	12sh	
Social Inec SOC 303 SOC 337 SOC 361 SOC 362 SOC 363 SOC 448 SOC 458	quality and Social Change Social and Cultural Change World Societies and World Systems Social Stratification Racial and Ethnic Minorities Sociology of Sex and Gender Social Policy Political Sociology	3sh 3sh 3sh 3sh 3sh	3sh
Deviance a	nd Social Problems		
SOC 231 SOC 333	Contemporary Social Problems Deliquency and Youth		3sh 3sh
SOC 335	Alcohol and Drug Abuse	3sh	3sh
SOC 427 SOC 428	Spouse Abuse Child Abuse	3sh	3811
SOC 452	Disability and Society	3sh	
Individual	and Society		
SOC 251 SOC 345	Sociology of Human Sexuality Interpersonal Dynamics	3sh	3sh
SOC 357	Sociology of Aging	3sh	
Social Orga	anization and Institutions		
SOC 286 SOC 336	Marriage, Kinship, and the Family Sociology of the Family	3sh 3sh	
SOC 339	The Community (inactive)	3sh	
SOC 340 SOC 341	Sociology of Industry Sociology of Education	3sh 3sh	
SOC 342	Social and Cultural Aspects of		
SOC 348	Health and Medicine Sociology of Work	3sh 3sh	
SOC 352 SOC 421	Sociology of Religion	3sh	
SOC 421 SOC 458	Sociology of Mass Media Political Sociology	3sh 3sh	
Comparative	e Sociology		
SOC 233	Language and Culture	າ1-	3sh
SOC 271	Cultural Area Studies: Africa	3sh	

SOC 272 SOC 273 SOC 286 SOC 303 SOC 314 SOC 337 SOC 342	Cultural Area Studies: China Cultural Area Studies: Southeast Asia Marriage, Kinship, and the Family Social and Cultural Change Native Americans World Societies and World Systems Social and Cultural Aspects of Health and Medicine	3sh 3sh 3sh 3sh 3sh	3sh
Free Socio	logy Electives: (3)		9sh
Other Requ	irements:		0
Free Elect	ives:		33-41
Total Degr	ee Requirements:		124

- (@) Program revisions pending IUP Council of Trustees approval.
- (1) Intermediate-level Foreign Language may be included in Liberal Studies electives.
- (2) Semester hours counted in Liberal Studies, not in the major.
- (3) Internships in Sociology (SOC 493) will not count as part of the required Free Sociology electives and must count as credits beyond the 30sh required for the major (out of Free Electives). The student must write a one-page justification explaining the selection of his/her 9sh of Free Sociology electives as it relates to the internship experience.

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### The College of Humanities and Social Sciences

#### **Bachelor of Arts--Sociology/Human Services Track** (@)

```
Liberal Studies: As outlined in Liberal Studies section
                                                                                                        53-55
with the following specifications:
Mathematics: MATH 217 recommended Social Science: SOC 151 required, ANTH 110 and PSYC 101 recommended
Liberal Studies electives: no courses with SOC prefix
                                                                                                        0 - 6
Foreign Language Intermediate Level (1)
                                                                                                         42
Major:
Required courses:
SOC 151
             Principles of Sociology
                                                                                           *sh (2)
SOC 301
               Foudations of Sociological Practice
SOC 302
SOC 303
                 Clinical Sociological Practice
                                                                                           3sh
                 Social and Cultural Change
                                                                                         3sh
SOC 320
                Sociological Theory
                                                                                         3sh
             Social Research Methods
Internship in Sociology (3)
SOC 380
                                                                                           3sh
Controlled electives: One substantive area (4)
                                                                                                    15sh (5)
Medical Sociology: ANTH 444 or SOC 342, and 4 courses
from list: <u>ANTH 222</u>, <u>ANTH 444</u>, <u>BIOL 151</u> or <u>BIOL 155</u>, <u>ECON 335</u>, <u>FDNT 212</u>, <u>PSYC 321</u>, <u>PSYC 378</u>, <u>SOC 231</u>, <u>SOC 336</u>, <u>SOC 342</u>, <u>SOC 357</u>, <u>SOC 448</u>, <u>SOC 452</u>, <u>SOC 457</u>
Gerontology: PSYC 378 or SOC 357, and 4 courses from list:
ANTH 444, ECON 335, PSYC 312, PSYC 378, RGPL 350, SOC 231,
SOC 251, SOC 336, SOC 342, SOC 352, SOC 357, SOC 448, SOC 457
Juvenile Delinquency: CRIM 451 or SOC 333, and 4 courses from list:
CRIM 102, CRIM 270, CRIM 361, CRIM 370, CRIM 451, GEOG 432, HIST 374, SOC 231, SOC 333, SOC 335, SOC 336, SOC 345, SOC 361, SOC 362, SOC 428, SOC 448, SOC 457
Interpersonal and Family Sociology: SOC 336 or SOC 345, and 4
courses from list: <u>HMEC 218</u>, <u>HMEC 224</u>, <u>PSYC 311</u>, <u>PSYC 321</u>, <u>PSYC 330</u>, <u>SOC 251</u>, <u>SOC 335</u>, <u>SOC 336</u>, <u>SOC 345</u>, <u>SOC 361</u>, <u>SOC 363</u>, <u>SOC 427</u>, <u>SOC 428</u>, <u>SOC 448</u>, <u>SOC 457</u>, <u>SOC 452</u>
Labor and Industry: SOC 340 or SOC 348, and 4 courses from list:
ECON 330, ECON 350, ECON 371, ECON 372, ECON 373, HIST 373, ILR 426,
ILR 480, PSYC 390, SOC 231, SOC 340, SOC 348, SOC 361, SOC 448,
SOC 457, SO458
Community Development: SOC 231 and PLSC 354, and 3 courses from list:
<u>ANTH 271, ANTH 272, ANTH 314, ECON 336, ECON 383, FDNT 402, GEOG 331, </u>
GEOG 332, PLSC 251, RGPL 350, SOC 333, SOC 336, SOC 341, SOC 363, SOC 448, SOC 457
Other Requirements:
                                                                                                        21-29
Free Electives:
                                                                                                        124
Total Degree Requirements:
```

- (@) Program revisions pending IUP Council of Trustees approval.
- (1) Intermediate-level Foreign Language may be included in Liberal Studies electives.

- (2) Semester hours counted in Liberal Studies, not in the major.
- (3) <u>SOC 301</u> and <u>302</u> must be taken before <u>SOC 493</u>. Generally, <u>SOC 493</u> is taken in the summer before the senior year.
- (4) Students may create their own substantive area with the approval of the department chairperson.
- (5) At least three courses in any substantive area must be SOC (Sociology) courses.

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## The College of Humanities and Social Sciences

#### Bachelor of Arts-Sociology/Applied Social Research Track (@)

```
Liberal Studies: As outlined in Liberal Studies section
                                                                                      53-55
with the following specifications:
Mathematics: MATH 217
Social Science: SOC 151 required, ANTH 110 recommended
Liberal Studies electives: COSC 101, no courses with SOC prefix
                                                                                       0-6
Foreign Language Intermediate Level (1)
                                                                                       42
Major:
Required courses:
SOC 151 Principles of Sociology
SOC 320 Sociological Theory
                                                                           *sh
                                                                          3sh
SOC 380
SOC 456
              Social Research Methods
                                                                           3sh
              Field Research Methods
                                                                           3sh
SOC 457
                                                                          3sh
             Computer Use in Sociology
           Political Sociology
Internship in Sociology (3) 12sh
SOC 458
                                                                          3sh
Controlled electives: One substantive area (4)
                                                                                   15sh (5)
Medical Sociology: ANTH 444 or SOC 342, and 4 courses
from list: ANTH 222, ANTH 444, BIOL 151 or BIOL 155, ECON 335, FDNT 212, PSYC 321, PSYC 378, SOC 231, SOC 336, SOC 342, SOC 357, SOC 448, SOC 452, SOC 457
Gerontology: PSYC 378 or SOC 357, and 4 courses from list:
ANTH 444, ECON 335, PSYC 312, PSYC 378, RGPL 350, SOC 231,
SOC 251, SOC 336, SOC 342, SOC 352, SOC 357, SOC 448, SOC 457
Juvenile Delinquency: CRIM 451 or SOC 333, and 4 courses from list:
CRIM 102, CRIM 270, CRIM 361, CRIM 370, CRIM 451, GEOG 432, HIST 374, SOC 231, SOC 333, SOC 335, SOC 336, SOC 345, SOC 361, SOC 362, SOC 428, SOC 448, SOC 457
Interpersonal and Family Sociology: SOC 336 or SOC 345, and 4
Labor and Industry: SOC 340 or SOC 348, and 4 courses from list:
ECON 330, ECON 350, ECON 371, ECON 372, ECON 373, HIST 373, ILR 426,
ILR 480, PSYC 390, SOC 231, SOC 340, SOC 348, SOC 361, SOC 448,
SOC 457, SO458
Community Development: SOC 231 and PLSC 354, and 3 courses from list:
<u>ANTH 271, ANTH 272, ANTH 314, ECON 336, ECON 383, FDNT 402, GEOG 331, </u>
GEOG 332, PLSC 251, RGPL 350, SOC 333, SOC 336, SOC 341, SOC 363, SOC 448, SOC 457
Other Requirements:
                                                                                       21-29
Free Electives:
                                                                                      124
Total Degree Requirements:
```

- (@) Program revisions pending IUP Council of Trustees approval.
- (1) Intermediate-level Foreign Language may be included in Liberal Studies electives.

- (2) Semester hours counted in Liberal Studies, not in the major.
- (3) <u>SOC 380</u>, <u>456</u>, and <u>457</u> must be taken before taking <u>SOC 493</u>. Generally, <u>SOC 493</u> is taken in the summer before the senior year.
- (4) Students may create their own substantive area with the approval of the department chairperson.
- (5) At least three courses in any substantive area must be SOC (Sociology) courses.

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## The College of Humanities and Social Sciences

# **Bachelor of Science in Education-Social Sciences Education/Sociology Concentration (\*)**

```
Liberal Studies: As outlined in Liberal Studies section
                                                                      53-55
with the following specifications:
Social Science: PSYC 101, SOC 151, ECON 121
Liberal Studies electives: ECON 122, GEOG 230, PLSC 346,
no courses with SOC prefix
                                                                       32
Professional Education sequence:
COMM 301
EDEX 301
           Technology for Learning and Instruction
                                                              3sh
            Education of Students with Disabilities
            in Inclusive Secondary Settings
                                                              2sh
            Educational Psychology
                                                              3sh
EDSP 377
EDUC 242
            Educational Tests and Measurements
Pre-student Teaching Clinical Experience I
                                                              3sh
                                                              1sh
EDUC 342
            Pre-student Teaching Clinical Experience II
EDUC 441
EDUC 442
            Student Teaching
                                                              12sh
            School Law
                                                              1sh
EDUC 455
            Teaching of Social Sciences in
            Secondary Schools
                                                              3sh
FDED 202
            American Education in Theory and Practice
                                                                       36
Major:
Required Sociology or related courses:
SOC 151
SOC 231
         Principles of Sociology
                                                              *sh (1)
            Contemporary Social Problems
Sociological Theory
                                                                      3sh
SOC 320
                                                             3sh
SOC 380
ANTH 211
            Social Research Methods
                                                              3sh
           Cultural Anthropology
                                                              3sh
Controlled electives:
One course recommended from each of the
following 3 areas of Sociology:
Social Structures and Processes:
                                     SOC 336, SOC 340,
SOC 341, SOC 348, SOC 352, SOC 421, SOC 458
Social Problems: SOC 231, SOC 251, SOC 333, SOC 335,
SOC 357, SOC 362, SOC 363, SOC 427, SOC 428
Theory and Research:
                        ANTH 317, SOC 301, SOC 456, SOC 457
History Distributional Requirements
Any two History courses which focus on the U.S.
                                                              6sh
Any Non-Western or World History Course
Required Social Science Distribution
GEOG 200 level or higher PLSC 280 or PLSC 285
                                                              3sh
                                                                   3sh
Other Requirements:
                                                                       0
                                                                       1-3
Free Electives: (2)
                                                                       124
Total Degree Requirements:
```

<sup>(\*)</sup> See requirements leading to teacher certification in the catalog section on Academic Policies, <u>Admission to</u> Teacher Education

(1) <u>SOC 151</u>: Principles of Sociology is counted as part of the 53-55sh Liberal Studies requirements.

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## The College of Humanities and Social Sciences

### **Minor-Sociology-15**

Required course:

SOC 151 Principles of Sociology 3sh

Controlled electives:

One course from list: <u>SOC 231</u>, <u>SOC 320</u>, <u>SOC 380</u> 3sh Three additional courses in Sociology 9sh

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### The College of Humanities and Social Sciences

### **Minor-Applied Social Research** 15

#### Required courses:

SOC 380	Social Research Methods	3sh
SOC 456	Field Research Methods	3sh
SOC 457	Computer Use in Sociology	3sh
SOC 458	Political Sociology	3sh

#### Controlled elective:

Any research course in College of Humanities and Social Sciences, as approved by department chairperson 3sh Optional internship:  $\underline{\text{ANTH 493}}$  or  $\underline{\text{SOC 493}}$  6sh

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### The College of Humanities and Social Sciences

#### **Department of Spanish and Classical Languages**

R. Roger Smith, Chairperson; Barton, Broad, Carranza, Delbrugge, Drescher, Foltz, Glisan, Hernandez, Miltz, Rivera-Montanez, Rodríguez, M. Ryan, Spieker, Thornton, Young; and professor emeritus Mendizabel

The Department of Spanish and Classical Languages offers a varied curriculum designed to provide not only basic language instruction in Spanish, Greek, and Latin but also the more advanced competencies needed by language specialists and students hoping to take advantage of an international study experience. For the undergraduate Spanish major, the department has three degree programs: the B.S. in Education, the B.A. in Spanish, and the B.A. in Spanish for International Trade. The latter degree program provides solid undergraduate degree training preparatory to an M.B.A. in International Management.

Students majoring in Spanish will acquire proficiency in all phases of the language and enter more deeply into the history, culture, and literature of Spanish-speaking countries. Spanish majors generally find employment in government work, librarianship, journalism, foreign trade, airlines, tourism, business, criminology, and teaching. Students choosing careers as secondary school teachers will find the close supervision and advanced methodology offered by the department a distinct asset.

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### The College of Humanities and Social Sciences

#### **College Language Requirements**

Students in the College of Natural Sciences and Mathematics and College of Humanities and Social Sciences, who must pass an intermediate-level language course requirement for graduation, may choose any one of the five languages offered by the Foreign Language departments: French, German, Italian, Latin, and Spanish. Those choosing the Spanish or Latin options will fulfill the requirement by successfully completing SPAN 201 or SPAN211\* or LATN 201. The student with no previous foreign language study will take SPAN 101-SPAN 102 or SPAN 111\* or LATN 101-LATN 102 as a prerequisite; the credits will not be applicable to any college or department requirements (except for students in HRIM who may fulfill their 3-9-hour language requirement with SPAN 111\* or SPAN 211\* or SPAN 131-132 or with two 4-semester hour courses) but may be counted as general electives in the total required for graduation. Students in the other colleges may choose to take one of the languages offered (at the intermediate level) in fulfilling the requirements of Liberal Studies electives.

#### \*Course is currently inactive

Students with previous Spanish study in high school will be placed into the appropriate course levels by means of a written departmental exam, administered prior to the beginning of the semester. In addition, as deemed necessary, especially in the case of native or heritage speakers, students' writing and speaking proficiency will be assessed by one or more faculty members in the Spanish department. Each student's individual requirements and the judgment of the classroom instructors will also be considered in placement.

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### The College of Humanities and Social Sciences

#### **Spanish for Elementary Education**

A student in Elementary Education may elect a concentration of 19 semester hours of Spanish, consisting of the following:

SPAN 201	or equivalent	4sh
<b>SPAN 221</b>	Intermediate Spanish Conversation	3sh
SPAN 230	Intermediate Spanish Composition	3sh
SPAN 260	Introduction to Hispanic Literature	3sh
SPAN 321	Advanced Spanish Conversation	3sh
SPAN 404	Advanced Spanish Grammar	3sh

Elementary Education students wishing to prepare to teach in elementary programs where content teaching in Spanish is the objective should enroll in the Foreign Languages and International Studies for Elementary Teaching (FLISET) program described under the Department of Professional Studies in Education.

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### The College of Humanities and Social Sciences

#### **Study Abroad and Internships**

**Study Abroad:** The university has established study-abroad centers in Spain, Mexico, and Costa Rica. The program in Valladolid, Spain, is a second-semester-only program, whereas the ones in Mexico and Costa Rica are summer programs. All majors are required to participate in study abroad; nonmajors are also accepted into these programs. The 18 hours in Spain or 7 hours in Mexico or 4 hours in Costa Rica are applicable to a major or a minor in Spanish. Students interested in more information should contact the Spanish and Classical Languages Department.

**Internships:** Internships in Spain, Mexico, and Costa Rica are available through the department. All internships take place during the summer and vary from six weeks to two months in duration. Internship is a credit-bearing course, <u>SPAN 493</u>, and all interns are enrolled in the first session of summer school. Noncredit internships cannot be considered. Students enrolled in the Spanish for International Trade program are strongly urged to do an internship in order to gain credibility in the field of international business. Internships are available in banking, government, social work, communications, education, marketing, and many other fields. Arranging an internship abroad takes considerable long-range planning, and anyone interested should contact the Spanish Department at least three months in advance.

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### The College of Humanities and Social Sciences

#### **Bachelor of Arts-Spanish**

Liberal Studies: As outlined in the Liberal Studies section with the following specifications:		53-55
Liberal Studies electives: no courses with SPAN prefix		
College: Foreign Language (included in major)		0
Major: Study Abroad (1) Required courses:		37
SPAN 201 or equivalent  SPAN 221 Intermediate Spanish Conversation  SPAN 230 Intermediate Spanish Composition  SPAN 260 Introduction to Hispanic Literature  SPAN 321 Advanced Spanish Conversation  SPAN 340 Hispanic Civilization Through the 19th Century  SPAN 342/SPAN 344 20th-Century Spanish Civilization and Culture/  20th-Century Spanish-American Civilization	4sh 3sh 3sh 3sh 3sh 3sh	
and Culture  SPAN 404 Advanced Spanish Grammar	3sh 3sh	
Controlled electives: At least two courses from those numbered 410-431 Any other six credits in courses 342 or above	6sh 6sh	
Other Requirements:		0
Free Electives:		32-34
Total Degree Requirements:		124

Total Degree Requirements: 124

(1) Students in the B.A. Spanish major must successfully complete a program of language study in a Spanish-speaking country. This program must, as a minimum, last four weeks and carry 3 or more sh extending beyond the intermediate level. Students may fulfill this requirement by participating in any of IUP's study abroad programs in Spain, Mexico, or Costa Rica, or by transferring credits from another accredited program. Students wishing to fulfill this requirement through a non-IUP program should obtain prior approval from the department. Based on demonstration of adequate oral proficiency and significant cross-cultural experience, students may be exempted from this requirement with the approval of the advisor.

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## The College of Humanities and Social Sciences

Minor-Spanish 22

Required	courses:	
SPAN 201	or equivalent	4sh
<b>SPAN 221</b>	Intermediate Spanish Conversation	3sh
SPAN 230	Intermediate Spanish Composition	3sh
<u>SPAN 260</u>	Introduction to Hispanic Literature	3sh
<u>SPAN 321</u>	Advanced Spanish Conversation	3sh
SPAN 342	/ 20th-Century Spanish Civilization	
	and Culture/	
<u>SPAN 344</u>	20th-Century Spanish-American	
	Civilization and Culture	3sh

#### Controlled electives:

One course: <u>SPAN 340</u>, <u>SPAN 342</u>, <u>SPAN 344</u>, <u>SPAN 362</u>, <u>SPAN 364</u>, or <u>SPAN 353</u>

3sh

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### The College of Humanities and Social Sciences

#### **Bachelor of Arts-Spanish for International Trade**

```
Liberal Studies: As outlined in Liberal Studies section
                                                                          54-56
with the following specifications:
Mathematics: MATH 121
Social Science: ECON 121
Liberal Studies electives: GEOG 252, MATH 214, BEDU 101/COSC 101/IFMG 101,
no course with SPAN prefix
College:
                                                                           0
Foreign Language (included in major)
                                                                           34
Major:
Study Abroad (1)
Required courses:

        SPAN
        201

        SPAN
        222

        SPAN
        230

                                                                     4sh
            or equivalent
             Intermediate Spanish Conversation (Business)
                                                                    3sh
             Intermediate Spanish Composition
                                                                    3sh
SPAN 260
             Introduction to Hispanic Literature
                                                                     3sh
<u>SPAN 321</u>
<u>SPAN 340</u>
            Advanced Spanish Conversation
                                                                     3sh
            Hispanic Civilization Through the 19th Century
                                                                    3sh
SPAN 404
            Advanced Grammar
      342/SPAN 344 20th-Century Spanish Civilization
             and Culture/20th-Century Spanish-American
             Civilization and Culture
                                                                     3sh
<u>SPAN 354</u>
             Commercial Spanish
                                                                     3sh
Controlled electives:
Other Spanish Electives
                                                                 6sh
                                                                           36
Other Requirements: Business sequence
ACCT 201
            Accounting Principles I
                                                                 3sh
ACCT 202
ADMS 321
BLAW 235
            Accounting Principles II
            Business and Interpersonal Communications
                                                                 3sh
             Introduction to Business Law
                                                                 3sh
ECON 122
            Principles of Economics II
                                                                 3sh
FIN 310
             Finance I
                                                                3sh
IFMG 300
MGMT 310
             Information Systems: Theory and Practice
                                                                 3sh
             Principles of Management
                                                                 3sh
MGMT 330
             Production and Operations Management
MGMT 495
            Business Policy
                                                                 3sh
MKTG 320
             Principles of Marketing
                                                                 3sh
OBUS 215
            Business Statistics
                                                                 3sh
Free Electives:
```

(1) Students in the B.A. Spanish for International Trade major must successfully complete a program of language study in a Spanish-speaking country. This program must, as a minimum, last four weeks and carry 3 or more sh extending beyond the intermediate level. Students may fulfill this requirement by participating in any of IUP's study abroad programs in Spain, Mexico, or Costa Rica or by transferring credits from another accredited program. Students wishing to fulfill this requirement through a non-IUP program should obtain prior approval from the department. Based on demonstration of adequate oral proficiency and significant cross-cultural experience, students may be exempted from this requirement with the approval of the advisor.

124-126

Total Degree Requirements

This information is maintained by the Office of the Regist 11:40 PM on 09/12/2000.	istrar, with approval fr	om the University Senate.	. Last Modified

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## The College of Humanities and Social Sciences

#### **Bachelor of Science in Education-Secondary Spanish Education (\*)**

The following additional requirements for Spanish Education in the Admission to Teacher Education and Certification Process are required. Please see the remainder of the requirements for all B.S.Ed. majors in the Admission to Teacher Education and Certification Process in the College of Education and Educational Technology section of this catalog.

#### **Junior Standing:**

Effective with the entering class of 1990, junior standing is reviewed in the semester that the 57th semester hour is earned. At that point, students need to meet the following departmental requirements in addition to the universitywide 4-Step requirements.

- 1. Successfully complete an English essay. Students read a recent article dealing with innovations in teaching and are asked to respond to certain issues
- 2. Pass a standard exam in grammar, reading, and writing
- 3. Attain intermediate-mid rating or higher in an Individual Oral Proficiency Interview (ACTFL-ETS)
- 4. Satisfactorily complete an interview in English with the Department of Spanish and Classical Languages faculty and one cooperating teacher to assess the student's ability to interact with others on a professional level
- 5. Hold at least a 3.0 GPA in Spanish

#### **Admission to Student Teaching:**

- 1. Attain advanced rating or higher on the Individual Oral Proficiency Interview (ACTFL-ETS).
- 2. Hold at least a 3.0 GPA in Spanish
- 3. Earn a grade of C or higher in EDUC 453
- 4. Earn a grade of C or higher in SPAN 353

with the f Social Sci	<pre>udies: As outlined in Liberal Studies section ollowing specifications: ence: ANTH 110, PSYC 101 udies electives: no courses with SP prefix</pre>		53-55
College:			34
Profession	al Education sequence:		
COMM 301 EDEX 301	Technology for Learning and Instruction Education of Students with Disabilities	3sh	
	in Inclusive Secondary Settings	2sh	
EDSP 202	Educational Psychology	3sh	
EDSP 377	Educational Tests and Measurements	3sh	
EDUC 242	Pre-student Teaching Clinical Experience I	1sh	
EDUC 342	Pre-student Teaching Clinical Experience II	1sh	
EDUC 342 EDUC 441	Student Teaching Clinical Experience if	12sh	
EDUC 441 EDUC 442	School Law	12811 1sh	
		ISII	
EDUC 453	Teaching of Foreign Language in	2 - la	
EDITO 400	Secondary School	3sh	
EDUC 499	Multicultural/Multiethnic Education	2sh	
FDED 202	American Education in Theory and Practice	3sh	
Wadam.			2.4
Major:	-J (1)		34
Study Abro			
Required c			
	or equivalent	4sh	
<u>SPAN 222</u>	Intermediate Spanish Conversation (Business)	3sh	

Free Electives:	1-3
Controlled Electives: Any other three (3) credits from <a href="SPAN 300">SPAN 300</a> or above	3sh
the Spanish Language	3sh
SPAN 353 Phonetics and Phonemics SPAN 390 Teaching of Elementary Content Through	3sh
Civilization and Culture	3sh
SPAN 342/SPAN 344 20th-Century Spanish Civilization and Culture/20th-Century Spanish-American	
SPAN 404 Advanced Grammar	3sh
SPAN 340 Hispanic Civilization Through the 19th Century	3sh
SPAN 321 Advanced Spanish Conversation	3sh
SPAN 260 Introduction to Hispanic Literature	3sh
SPAN 230 Intermediate Spanish Composition	3sh

#### Total Degree Requirements

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- (\*) See requirements leading to teacher certification <u>Admission to Teacher Education</u> in the College of Education and Educational Technology section of this catalog.
- (1) Students in the B.S.Ed. Secondary Spanish Education major must successfully complete a program of language study in a Spanish-speaking country. This program must, as a minimum, last four weeks and carry 3 or more sh extending beyond the intermediate level. Students may fulfill this requirement by participating in any of IUP's study abroad programs in Spain, Mexico, or Costa Rica, or by transferring credits from another accredited program. Students wishing to fulfill this requirement through a non-IUP program should obtain prior approval from the department. Based on demonstration of adequate oral proficiency and significant cross-cultural experience, students may be exempted from this requirement with the approval of the advisor.

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### The College of Natural Sciences and Mathematics

One of the characteristics of the twentieth century is the marked change in the relation of citizens to their environment. Space probes, orbiting satellites, and productive research on the structure and synthesis of living matter have brought to the forefront for reexamination such time-honored queries as, "What is the nature of the universe?" or "Can people control their natural environment?" or "How did life begin?" Scientifically found answers to these and other questions, coupled with proper application of this knowledge for humankind's betterment, must be a significant part of the goal of educated people everywhere.

The objectives of the College of Natural Sciences and Mathematics are to acquaint the student with the kinds of problems which lend themselves to possible solutions through the use of science; to introduce different scientific techniques through significant illustrative experiences; to give a sense of perspective in the development of science; and to develop an understanding of the basic community of all scientific disciplines.

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### The College of Natural Sciences and Mathematics

#### **Degrees**

The departments of Biology, Chemistry, Computer Science, and Physics offer work leading to either a Bachelor of Science or a Bachelor of Arts degree, depending upon the specific course program pursued. The Bachelor of Science degree is awarded for successful work in the departments of Geoscience and Mathematics. The Bachelor of Arts degree is awarded by the Department of Psychology. A Bachelor of Science degree is also awarded in Natural Sciences.

Several departments in the college sponsor Master of Arts or Master of Science degrees in the university's Graduate School. The Department of Psychology offers the Doctor of Clinical Psychology degree. Information on these programs should be obtained from the Graduate School.

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## The College of Natural Sciences and Mathematics

### **Degrees Offered**

**Applied Mathematics** 

**Applied Physics** 

Biochemistry

**Biology** 

**Biology Education** 

Chemistry

Chemistry Education

**Computer Science** 

Earth and Space Science Education

Economics/Mathematics

Environmental Geoscience

**Environmental Health** 

General Science Education

Geology

Mathematics

**Mathematics Education** 

**Natural Science** 

**Physics** 

**Physics Education** 

Psychology

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### The College of Natural Sciences and Mathematics

#### **Degree Requirements**

In addition to the university's Liberal Studies requirements, all students seeking a baccalaureate degree in the College of Natural Sciences and Mathematics must complete the requirements for a major as established by the department through which they wish to specialize. Statements of these requirements and those for minoring in a specific field appear in the department sections that follow. A double major or minor may encompass a discipline outside as well as within the college but should be selected only with advisor approval. As a general principle, there is considerable latitude in course choice for Natural Sciences and Mathematics majors; for specifically required courses, substitution in any program must have the written approval of the student's department chairperson or the college dean.

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## The College of Natural Sciences and Mathematics

#### The Foreign Language Requirement

Unless otherwise indicated, each department adheres to the following foreign language requirement: A candidate for a Bachelor of Arts or Bachelor of Science degree must demonstrate a proficiency in a foreign language equivalent to that attained upon completion of two years of college instruction in that language. This requirement may be met by one of the following:

- a. successful completion of the intermediate level in a specific language
- b. successful completion of an exemption or credit examination

Any foreign student, registered as such at IUP, whose acquired native language is other than English and who demonstrates an acceptable proficiency in English, is exempt from the foreign language requirement for a Natural Sciences and Mathematics degree if the department he/she is majoring in does not require a specific language not thus covered.

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## The College of Natural Sciences and Mathematics

#### **Preprofessional Programs**

The college offers programs for the preparation of students for acceptance by a professional school: pre-medical (including osteopathic medicine) and pre-veterinary medicine. In addition, the college offers a major in the Natural Sciences for those students whose goal is dentistry, pharmacy or pharmacology, optometry, podiatry, chiropractic medicine, or physical therapy. All programs are so designed that, should work at a professional school not ensue, the student may earn an IUP baccalaureate degree, provided he/she has been faithful to faculty advisement.

The preprofessional health programs in the college presuppose that the student has an excellent background in the high school sciences and mathematics and will prove to be an excellent college student. Students should identify their proposed field of study upon admission to IUP.

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### The College of Natural Sciences and Mathematics

### **Cooperative Programs**

IUP has been fortunate to enter into cooperative agreements with a number of outstanding institutions to provide significant career opportunities to our students. These formal agreements provide for accelerated graduate or professional degree programs or carefully planned and coordinated undergraduate programming with the cooperating institution. Programs are intended to assure acceptance of properly qualified students by the cooperating professional schools. Additional information concerning the specific programs can be found under the appropriate academic department in this catalog.

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## The College of Natural Sciences and Mathematics

#### **Primary Care Scholars Program**

The Philadelphia College of Osteopathic Medicine (PCOM) has established the Primary Care Scholars Program with six Pennsylvania State System of Higher Education universities. The program will enable students who have demonstrated both academic excellence and a commitment to the practice of primary care in Pennsylvania to gain early admission to PCOM. Contact Dr. Allan Andrew for specific information regarding this program.

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## The College of Natural Sciences and Mathematics

### **Allegheny General Hospital Scholars Program**

This program has been established to attract highly qualified students who live in the Pittsburgh area and southwestern Pennsylvania to enter the medical disciplines of family medicine, internal medicine, and general pediatrics. This is an integrated program for IUP, Allegheny General Hospital, and MCP Hahnemann University School of Medicine. Contact Dr. Allan Andrew for specific information regarding this program.

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## The College of Natural Sciences and Mathematics

### **Chiropractic (see Natural Sciences)**

The New York College of Chiropractic Medicine Program is designed to accelerate the professional training of IUP students in the field of chiropractic medicine.

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### The College of Natural Sciences and Mathematics

### **Engineering (See Department of Physics)**

The program with Drexel University combines the opportunity for two years of study at IUP with the remaining three years of study as part of the Drexel plan of cooperative education. A student completing this program will receive a bachelor's degree in engineering from Drexel University.

The program with University of Pittsburgh allows the student to enroll at IUP for the first three years of college and conclude degree work by enrolling in an engineering program at the University of Pittsburgh for the last two years. The student will earn a B.S. degree in Natural Science from IUP and the appropriate engineering degree from the University of Pittsburgh; see the Natural Science section for IUP degree requirements.

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### The College of Natural Sciences and Mathematics

### Family Medicine (See **Department of Biology**)

The program with Jefferson Medical College of Thomas Jefferson University increases the opportunities for IUP students to be admitted to Jefferson Medical College in the Family Medicine Program. The program is designed to provide physicians to rural communities in Pennsylvania where there is a physician shortage.

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### The College of Natural Sciences and Mathematics

### **Primary Care Partnership (See Department of Biology)**

The program with Pennsylvania State University College of Medicine enables the college to identify students with primary care potential and provide these students with the opportunity to interact with primary care faculty at the Pennsylvania State University College of Medicine. Contact Dr. Allan Andrew for specific information.

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# The College of Natural Sciences and Mathematics

### Forestry and Environmental Studies (See <u>Department of Biology</u>)

The program with Duke University is designed to coordinate the education of students from IUP with the graduate programs in forestry and environmental management offered at Duke University in Durham, North Carolina.

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# The College of Natural Sciences and Mathematics

### **Podiatry (See Natural Sciences)**

The Pennsylvania College of Podiatric Medicine program accelerates the professional training of IUP students in the field of podiatry.

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# The College of Natural Sciences and Mathematics

### **Optometry (See Natural Sciences)**

The Pennsylvania College of Optometry program accelerates the professional training of IUP students in the field of optometry

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# The College of Natural Sciences and Mathematics

#### **Marine Science Consortium**

College majors may be interested in the programs available through the Marine Science Consortium. The Marine Science Consortium was established in 1968 for the purpose of promoting teaching and research in the marine sciences. Participating institutions include IUP and thirteen other colleges and universities. Although no separate major in the Marine Sciences exists, elective courses may be taken and credited toward undergraduate curricula in Biology, Geology, Geography, and Earth Science. The Marine Science Consortium offers five three-week sessions during the summer at the NASA -Wallops Island Station, Virginia. Normally, several research cruises are offered each summer.

Students must register for credit and pay credit fees to a participating institution. Room and board fees are paid to the consortium. Applications for all summer sessions must be submitted to the institutional director by April 1. Students must be accepted by the consortium before registering at a participating institution. See section on Marine Science Consortium for a listing of courses. For brochure, summer bulletin, and application forms, contact Dr. Ray L. Winstead, Biology, or Dr. Darlene S. Richardson, Geoscience, who are the IUP directors and assist students in program planning.

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# The College of Natural Sciences and Mathematics

### **Internship Programs**

Several departments in the College of Natural Sciences and Mathematics have established extensive internship programs under which students engage in an off-campus supervised work experience for credit.

For more information about specific internship programs, students should consult with the chairperson of the department in which the student is majoring. Students eligible for internships may receive federal or state funding.

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# The College of Natural Sciences and Mathematics

### **Department of Biology**

W. Barkley Butler, Chairperson; Andrew, Ayebo, Bharathan, Browe, Ciskowski, Dietrich, Ferrence, Forbes, Gendron, Hinrichsen, Hulse, Humphreys, Jack, Kesner, Linzey, Lord, Luciano, Nastase, Newell, Peard, Peterson, Pickering, Pistole, Simmons, Winstead, Wolin; and professors emeriti Gallati, Liegey, Moore, Schrock

Web site: <a href="http://old.www.iup.edu/biology/">http://old.www.iup.edu/biology/</a>

Degrees offered by the Department of Biology are the Bachelor of Science in Biology, the Bachelor of Arts in Biology, the Bachelor of Science in Environmental Health, and the Bachelor of Science in Education with a Biology certification. The first three degree programs are under the College of Natural Sciences and Mathematics, and the fourth is under the College of Education and Educational Technology. The department also offers a Biology minor.

The program leading to a B.S. in Biology is designed to provide maximum depth in the sciences and mathematics with less opportunity for free electives. Students who plan to attend graduate school or professional schools, such as those in human or veterinary medicine, most often choose this program of studies.

Further, the B.S. in Biology automatically qualifies a student for a minor in chemistry and thus represents more than adequate preparation for employment opportunities that require expertise in both biology and chemistry.

The program leading to the B.A. in Biology is designed to allow greater opportunity for free electives. This freedom could be used to pursue interests in areas outside of biology, allowing for a more broadly based Liberal Arts education. Alternatively, the B.A. degree student would have the flexibility to pursue in depth (to minor in or perhaps even to double major in) another discipline. A Biology major combined with other sciences such as Computer Science, Chemistry, Physics, Geoscience, Mathematics, or Psychology, or disciplines such as Art, English, Business, or a foreign language can make attractive packages for the student and for potential future employers.

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# The College of Natural Sciences and Mathematics

### **Environmental Health Program**

This program focuses on environmental and ecological factors as they relate to human well-being, including food safety, clean water and air, vector-borne diseases, and waste management. The Environmental Health Program is a preparation for employment in local, state, and federal agencies and industry as well as graduate school in a public health-related field. Between the junior and senior year, each student should serve an internship in the private or public sector.

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# The College of Natural Sciences and Mathematics

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#### **Bachelor of Science-Environmental Health**

Liberal Studies: As outlined in Liberal Studies section

```
with the following specifications:
Mathematics: MATH 121
Natural Science: CHEM 111-CHEM 112
Social Science: ECON 101
Liberal Studies electives: BEDU 101/COSC 101/IFMG 101, MATH 216, PHYS 111
                                                                      30
Required courses:
BIOL 111
           Principles of Biology I
                                                         4sh
BIOL 112
BIOL 210
BIOL 220
            Principles of Biology II
                                                         4sh
           Botany
                                                         3sh
           General Zoology
                                                         3sh
BIOL 241
           General Microbiology
                                                         3sh
BIOL 310
BIOL 321
           Applied Entomology and Zoonoses
                                                         3sh
            Environmental Protection I
                                                         3sh
BIOL 322
            Environmental Protection II
                                                         3sh
BIOL 480
                                                         1sh
           Biology Seminar
Controlled electives:
Biology electives (major courses only)
                                                        3sh (1)
Other Requirements:
                                                                      31
Required courses:
CHEM 231
           Organic Chemistry I
                                                         4sh
CHEM 323
PLSC 250
           Analytical Methods
                                                         4sh
           Public Policy
                                                         3sh
PHYS 121
           Physics I Lab
                                                         1sh
<u>PHYS 112</u>
            Physics II Lecture
                                                         3sh
            Physics II Lab
                                                         1sh
            Introduction to Occupational
                                                         3sh
            Safety and Health Management
SAFE 301
                                                        3sh
           Health Hazard Identification
Controlled Electives:
           Biology Internship (1) or controlled
BIOL 498
            electives(2)
                                                         9sh
Foreign Language Intermediate Level (3)
                                                        0-6sh
                                                                      7
Free Electives:
```

- (1) No more than 6sh total from Independent Study, Special Topics, or Internship applies to major, excess applied as free electives. At least one writing-intensive course within the major (e.g., <u>BIOL 362</u> or <u>SAFE 462</u>) must be taken to fulfill Liberal Studies requirements.
- (2) The following courses count as controlled electives: <u>BIOL 362</u>, <u>BIOL 463</u>, <u>BIOL 476</u>, <u>CHEM 232</u>, <u>GEOS 121</u>, <u>GEOS 122</u>, <u>GEOS 331</u>, <u>SAFE 402</u>, <u>SAFE 461</u>, <u>SAFE 462</u>.
- (3) See Foreign Language Requirement. Foreign Language courses are counted as free electives.

Total Degree Requirements:

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# The College of Natural Sciences and Mathematics

### **B.S.** in Secondary Biology Education

The Department of Biology, in conjunction with the College of Education and Educational Technology, provides a program leading to the B.S. in Education with certification to teach biology. The program is committed to preparing teachers who possess a strong foundation in biology, a broad background in associated sciences, and an extensive preparation in pedagogy.

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# The College of Natural Sciences and Mathematics

### Foreign Language Requirement

Except for Biology Education majors, Biology majors must complete intermediate level or two semesters of foreign language starting at the highest level recommended by the freshman Pre-registration Placement Test in that language (may be included in Liberal Studies electives). This requirement can also be met by demonstrating proficiency in a foreign language equivalent to the intermediate level.

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# The College of Natural Sciences and Mathematics

### **Cooperative Programs**

The Biology Department cooperates in programs with Jefferson Medical College, Duke University School of Forestry and Environmental Studies, Marine Science Consortium, Inc., and Pymatuning Laboratory of Ecology.

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# The College of Natural Sciences and Mathematics

# **Duke Cooperative College Program in Forestry and Environmental Studies**

The Cooperative College program with the Duke University School of the Environment (<a href="http://www.env.duke.edu/">http://www.env.duke.edu/</a>) is designed to coordinate the undergraduate education of students at IUP with graduate programs in the areas of resources and environment offered at Duke. Undergraduate majors in one of the natural sciences, mathematics, economics, business, or political science are suited to the program. Preparation for the Duke program should include at least one year each of biology with work in botany, economics with a significant component of microeconomics, and mathematics which should include calculus, computer science, and statistics. Applicants to the Duke program who have completed courses in ecology, chemistry, geology, physics, and a foreign language or additional courses in biology, economics, and mathematics will be given preferential consideration. Students are accepted in either of two degree programs at Duke: the Master of Forestry (M.F.) or Master of Environmental Management (M.E.M.).

Students may be accepted into the Duke graduate program after three years of high-quality undergraduate study at IUP or upon completion of the baccalaureate. Students who qualify after three years will have completed most of the undergraduate degree requirements at IUP except for total hours. Courses at Duke will be applied to the bachelor's degree at IUP. Dr. Jerry L. Pickering, Department of Biology, is the faculty advisor at IUP and assists students in program planning.

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# The College of Natural Sciences and Mathematics

### Jefferson Medical College-IUP Physician Shortage Area Program

A cooperative Family Medicine Physician Education Program has been established by IUP and Jefferson Medical College of Thomas Jefferson University in Philadelphia for the purpose of improving the distribution of physicians in Pennsylvania. The program is designed to increase the opportunities for young women and men to practice family medicine in the rural communities of Pennsylvania where there is a shortage of physicians. Students interested in this program should enroll as Family Medicine majors.

The program at Jefferson Medical College will admit approximately four graduates of IUP and twenty graduates of other colleges each year. Students from IUP will be admitted only if properly qualified according to the admission standards and policies of Jefferson Medical College. Applications are reviewed by the Joint IUP-Jefferson Subcommittee and recommendations made to the Jefferson Committee on Admissions.

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# The College of Natural Sciences and Mathematics

### **Admission to Jefferson Medical College**

A strong preparation in the sciences and mathematics basic to medical school studies is required. A variety of college course formats and combinations, including biology, general and organic chemistry, and physics are a minimum. Courses taken to meet the basic requirements should be rigorous and, in general, comparable to courses accepted for concentration in these disciplines. Courses taken should be supplemented by laboratory experiences. Students may take upper-level science courses out of educational interest or to fulfill the requirements of their major. Taking additional science courses that cover material taught within the medical school curriculum is not helpful to gaining admission.

Breadth of education is expected. Pursuit of some discipline in depth is encouraged. A successful medical student must actively acquire, synthesize, apply, and communicate information. These are skills that can be developed through a great variety of academic disciplines. Studies in the humanities and the social and behavioral sciences and development of effective writing skills are strongly suggested. Additional requirements for admission can be found in "Information for Prospective Students," published by Jefferson Medical College.

Students who qualify for the Physician Shortage Area Program (PSAP) must certify their intentions to adhere to the following plan of education and practice: (a) complete the family medicine curriculum during their four years of medical education at Jefferson Medical College, including a six-week clerkship in a rural area; (b) complete a three-year family medicine residency; and (c) agree to practice family medicine in an underserved area. Preference will be given to Pennsylvania residents who are interested in this program, with highest priority given to those who actually live, at the time of application, in the underserved area in which they hope to practice. Dr. Allan Andrew, pre-medical advisor in the Biology Department, will assist students in program planning.

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# The College of Natural Sciences and Mathematics

#### **Marine Science Consortium**

Biology majors interested in marine biology are encouraged to investigate summer courses offered through the Marine Science Consortium at Wallops Island, Virginia, by contacting Dr. Ray Winstead in the Biology Department. Courses offered have included Marine Biology, Tropical Marine Ecology, Fish Biology, Marine Invertebrates, and many more. These courses count as biology electives.

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# The College of Natural Sciences and Mathematics

### **Pymatuning Laboratory of Ecology**

Biology majors can expand their selection of course offerings by participating in a cooperative program with the University of Pittsburgh's Field Station at the Pymatuning Laboratory of Ecology located in northwestern Pennsylvania. These elective courses center on ecological and environmental topics, i.e., Ecology, Field Botany, Vertebrate Ecology, Aquatic Entomology, Behavioral Ecology, and Experimental Design. Application and registration for both summer sessions must be completed by April 1. Students register for credit and pay fees at IUP. Books, lab fee, and room and board are paid to the Pymatuning Laboratory of Ecology. Dr. Anthony J. Nastase is the faculty advisor for this cooperative program and assists students in program planning, application, and registration.

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# The College of Natural Sciences and Mathematics

# IUP Department of Biology/University of Zimbabwe Department of Biological Sciences Exchange Program

The Department of Biology reciprocal exchange program with the University of Zimbabwe Department of Biological Sciences encourages both faculty and student exchanges in the major disciplines of biology. Students register and pay the cost of housing and meals, as well as any other mandatory semester fees in their home institution, and are then covered by the one-for-one exchange by the host institution. Course credits are transferable. Exchange of faculty and professional staff is also based on the principle of reciprocity. Dr. Amadu Ayebo, Coordinator, will assist students in program planning.

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# The College of Natural Sciences and Mathematics

### **Mentor Program and Biology Residence Floor**

The Department of Biology offers a Peer Mentor Program that allows incoming students, new to IUP and new to Biology, to quickly gain an academic home. New students are assigned an upper-level Peer Mentor to help guide them through the curriculum, requirements, and programs within our department and college. A fall off-campus retreat is an important component of our Mentor Program, and students are expected to attend.

Elkin Hall, just behind Weyandt Hall (the home of the Department of Biology), has a single residence floor dedicated to Biology, Environmental Health, Biology Education, and Preprofessional (Pre-Med, Pre-Vet) students. Students with similar professional and academic interests can share life experiences by being part of this component of our academic community. Undecided or Natural Science students with interests in Biology may also apply to be on this floor.

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# The College of Natural Sciences and Mathematics

### **Degree Programs**

In the programs of study that follow, no more than 6 semester hours total from internships, independent study, and special topics can be counted toward biology course requirements. Credits beyond six earned from these sources are counted as general electives. Note: Students changing into the majors of Biology, Biology Education, or Environmental Health are required to have a 2.5 cumulative GPA or permission of the chairperson.

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# The College of Natural Sciences and Mathematics

### **Bachelor of Arts-Biology**

```
Liberal Studies: As outlined in Liberal Studies section 55-56
with the following specifications:
Mathematics: MATH 121
Natural Science: CHEM 111-CHEM 112
Liberal Studies electives: no courses with BIOL prefix
                                                            32
Major:
Required courses:
         Principles of Biology I
                                                  4sh
BIOL 111
BIOL 112
           Principles of Biology II
                                                  4sh
BIOL 210
BIOL 220
                                                  3sh
           Botany
           General Zoology
                                                  3sh
           Principles of Microbiology
                                                  3sh
           Genetics
                                                  3sh
Controlled electives:
Biology electives (major courses only)
Other Requirements:
                                                            8
Chemistry sequence:
<u>CHEM 231</u>
           Organic Chemistry I
                                                 4sh
<u>CHEM 351</u>
         Biochemistry (2)
                                                 4sh
Foreign Language Intermediate Level(3) 0-6sh
Free Electives:
                                                            29
Total Degree Requirements:
                                                           124
```

- (1) No more than 6sh total from Independent Study, Special Topics Internship applies to major; excess applied as free electives.
- (2) The two-semester (six-credit) sequence of <u>BIOC 301-BIOC 302</u> can be substituted for <u>CHEM 351</u> to meet the biochemistry requirement.
- (3) See Foreign Language requirement. Intermediate-level foreign language may be included in Liberal Studies electives. Introductory-level foreign language courses count as free electives.

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# The College of Natural Sciences and Mathematics

### **Bachelor of Science-Biology**

```
Liberal Studies: As outlined in Liberal Studies section 56-57
with the following specifications:
Mathematics: MATH 121
Natural Science: CHEM 111-CHEM 112
Liberal Studies electives: PHYS 111 and either MATH 122 OR MATH 216,
no courses with BIOL prefix
                                                                38
Major:
Required courses:
            Principles of Biology I
<u>BIOL 111</u>
BIOL 112
BIOL 210
            Principles of Biology II
                                                4sh
            Botany
                                                3sh
                                                3sh
            General Zoology
BIOL 250
            Principles of Microbiology
                                                3sh
BIOL 263
            Genetics
                                                3sh
Controlled electives:
                                                18sh (1)
Biology electives (major courses only)
Other Requirements:
                                                                17
Chemistry sequence:
<u>CHEM 231</u>

<u>CHEM 232</u>

<u>CHEM 351</u>
           Organic Chemistry I
                                                4sh
            Organic Chemistry II (2)
                                                4sh
            Biochemistry (3)
                                                4sh
Physics sequence:
PHYS 121
PHYS 112
            Physics I Lab
                                                1sh
            Physics II Lecture
PHYS 122
            Physics II Lab
                                                1sh
Foreign Language Intermediate Level (4)
                                                0-6sh
                                                                13
Free Electives:
                                                                124
```

- (1) No more than 6sh total from Independent Study, Special Topics, or Internship applies to major; excess applied as free electives.
- (2) Students may substitute a third math course (MATH 122 or MATH 216) for CHEM 232.
- (3) The two-semester (six-credit) sequence of <u>BIOC 301-BIOC 302</u> can be substituted for <u>CHEM 351</u> to meet the biochemistry requirement.
- (4) See Foreign Language requirement. Intermediate-level foreign language may be included in Liberal Studies electives. Introductory-level foreign language courses count as free electives.

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Total Degree Requirements:

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# The College of Natural Sciences and Mathematics

### **Bachelor of Science in Education-Biology (\*)**

```
Liberal Studies: As outlined in Liberal Studies section
                                                                     54
with the following specifications: Mathematics: MATH 110 or MATH 121
Natural Science: CHEM 111-CHEM 112
Social Science: PSYC 101
Liberal Studies electives:
                              <u>PHYS 111</u>,
no courses with BIOL prefix, one course must have
a GEOS prefix from the Liberal Studies Natural Science,
Option II, Nonlaboratory List.
College:
                                                                      30
Professional Education Sequence: (1)
COMM 301 Technology for Learning and Instruction
                                                                3sh
EDSP 202
            Educational Psychology
                                                                3sh
EDSP 377
EDUC 242
            Educational Tests and Measurements
Pre-student Teaching Clinical Experience I
                                                                3sh
                                                                1sh
EDUC 342
EDUC 441
EDUC 442
            Pre-student Teaching Clinical Experience II
                                                                1sh
            Student Teaching (2)
                                                               12sh
            School Law
                                                                1sh
EDUC 451
            Teaching Science in the Secondary Schools
                                                                3sh
FDED 202
            American Education in Theory and Practice
                                                                3sh
Major:
                                                                      30
Required courses:
BIOL 111 Principles of Biology I
                                                                4sh
BIOL 112
BIOL 210
            Principles of Biology II
                                                                4sh
            Botany
                                                                3sh
            General Zoology
                                                                3sh
BIOL 250
            Principles of Microbiology
                                                                3sh
BIOL 263
            Genetics
                                                                3sh
BIOL 480
                                                                1sh
            Biology Seminar
Controlled electives:
Biology electives: (major courses only)
                                                                9sh (3)
                                                                      13
Other Requirements:
Chemistry sequence:
                                                                4sh
CHEM 231
           Organic Chemistry I
<u>CHEM 351</u>
            Biochemistry (4)
                                                                4sh
Physics sequence:
PHYS 121
PHYS 112
            Physics I Lab
                                                                1sh
            Physics II Lecture
                                                                3sh
PHYS 122
            Physics II Lab
                                                                      0
Free Electives:
```

#### (#)Total Degree Requirements:

127

- (\*) See requirements leading to teacher certification in the catalog section on Academic Policies, "<u>Admission to Teacher Education</u>," in the College of Education and Educational Technology section of this catalog.
- (1) Special Education Competency Requirement: Revision pending will eliminate exam option and will require <u>EDEX</u> 301 (2sh).
- (2) Eligibility for student teaching and certification in secondary biology education requires a cumulative GPA of 2.75 and a grade of C or better in all biology courses. The program in secondary biology education requires a cumulative

GPA of 2.75 for all majors.

- (3) No more than 6sh from Independent Study (<u>BIOL 482</u>), Special Topics (<u>BIOL 481</u>), Internship (<u>BIOL 493</u>) applies to major: excess applied as free electives
- (4) The two-semester (six-credit) sequence of <u>BIOC 301-BIOC 302</u> can be substituted for <u>CHEM 351</u> to meet the biochemistry requirement.
- (#) See advisory paragraph <u>Timely Completion of Degree Requirements</u> in catalog section on Requirements for Graduation.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# The College of Natural Sciences and Mathematics

### **Minor-Biology**

```
Minor: 20
Required courses:

BIOL 103-BIOL 104 General Biology I and II or
BIOL 111-BIOL 112 Principles of Biology I and II 8sh
Additional BIOL courses 12sh (1) (2)
```

#### **Other Requirements:**

- a. Student must have at least a 2.0 GPA in all BIOL courses for the minor.
- b. Student must take at least 6 semester hours of his/her biology courses at IUP.
- c. Must have permission of biology department chairperson
- (1) With approval of department chairperson.
- (2) At least 8 of the 12 required additional BIOL semester hours must come from 200 level or higher courses.

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# The College of Natural Sciences and Mathematics

### **Biochemistry Program**

Roy Harding and N. Bharathan, Co-Coordinators; Butler, Dietrich, Ford, Hinrichsen, Luciano, Southard, Sowa, Biology and Chemistry faculties

The B.S. in Biochemistry is a four-year degree curriculum offered as a cooperative program by the Biology and Chemistry departments. This Biochemistry Program also offers a minor in Biochemistry.

The curriculum leading to a B.S. in Biochemistry begins with foundation courses in biology, chemistry, mathematics, and physics in the first two years. Specialization in biochemistry commences in the third year with courses in biochemistry, genetics, physical chemistry, Special Topics in Biochemistry, and Biochemistry Seminar.

A unique feature of this undergraduate program is that Biochemistry research is a requirement. After consultation with faculty, the students will define a problem and devise an experimental plan through library research. Laboratory research will be done under the direct supervision of a faculty member. Finally, the student will report on the results of the research in both written and oral forms.

The B.S. in Biochemistry Program is intended for those students whose interests lie in a most exciting field of modern science. Graduates of this program can expect to be qualified to enter graduate programs in biochemistry, biology, chemistry, and molecular biology, professional schools in the health sciences, and positions in industrial and government research laboratories and in industrial production facilities.

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# The College of Natural Sciences and Mathematics

### **Bachelor of Science-Biochemistry**

Liberal Studies: As outlined in the Liberal Studies section 56-59 with the following specifications: Mathematics: MATH 123 Natural Science: PHYS 131/PHYS 141-PHYS 132/PHYS 142 Liberal Studies elective: MATH 124, no courses with BIOC prefix; one course must be 200-level or higher. 51 Major: Required courses: BIOC 301/BC311 Biochemistry I and Lab BIOC 302/BC312 Biochemistry II and Lab 4sh 4sh BIOC 480 Biochemistry Seminar I 1sh (1) BIOC 481 Special Topics in Biochemistry
BIOC 482 Independent Research in Biochemistry
BIOC 490 Biochemistry Seminar II 3sh 2sh 1sh (1) BIOL 111 Principles of Biology I BIOL 263 Genetics BIOL 250 Principles of Microbiology 4sh 3sh 3sh BIOL 401 Laboratory Methods in Biology and Biotechnology 3sh <u>CHEM 113</u> Concepts in Chemistry 4sh CHEM 114 Basic Inorganic Chemistry 4sh CHEM 231 Organic Chemistry I CHEM 232 Organic Chemistry II CHEM 323 Analytical Methods 4sh 4sh 4sh 340 Physical Chemistry for the Biological Sciences Controlled electives: 6 - 7Advanced Biology course chosen from: BIOL 331, BIOL 350, BIOL 352, BIOL 364, or BIOL 453 Either MATH 216 or COSC 110 3sh 3-4shOther Requirements: Foreign Language Intermediate Level (2) 0 - 67-11 Free Electives: 124 Total Degree Requirements:

- (1) 1sh each semester of senior year.
- (2) Intermediate-level Foreign Language may be included in Liberal Studies electives.

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# The College of Natural Sciences and Mathematics

### Minor-Biochemistry

Minor:	17-20
Total semester hours will depend on the controlled electives (9sh minimum required to 12sh for three 4sh electives)	
Required courses:	8
BIOC 301 Biochemistry I (1a)	3sh
BIOC 302 Biochemistry II	3sh
BIOC 311 Biochemistry Laboratory I (1a)	1sh
BIOC 312 Biochemistry Laboratory II	1sh
Other Requirements:	9-12
At least three controlled electives from following list	
BIOC 480 Biochemistry Seminar I	1sh
BIOC 481 Special Topics in Biochemistry	1-3sh
BIOC 490 Biochemistry Seminar II	1sh
BIOL 250 Principles of Microbiology (1b, d)	3sh
BIOL 263 Genetics (1b)	3sh
BIOL 350 Cellular Physiology	3sh
BIOL 352 Comparative Animal Physiology (1d)	3sh
BIOL 364 Immunology (1d)	3sh
BIOL 401 Laboratory Methods in Biology and	
Biotechnology (1d)	3sh
BIOL 453 Plant Physiology (1d)	3sh
CHEM 232 Organic Chemistry II (1c)	4sh
CHEM 322 Instrumental Analysis (1c, d)	4sh
<u>CHEM 323</u> Analytical Methods	4sh

(1) Or other 200-level or higher Biology or Chemistry courses with permission of chairperson of offering department. A minimum of 9sh is required.

- a. BIOL 111 and CHEM 232 are prerequisites.
- b. Required for Biology major.
- c. Required for Chemistry major.
- d. These courses have prerequisites not needed for the required courses.

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# The College of Natural Sciences and Mathematics

### **Department of Chemistry**

Ruiess V. F. Ramsey, Chairperson; Asting, Ballas, Crumm, Eddy, Elcesser, Ford, Harding, Klavetter, Ko, Kondo, Kupchella, Lake, Long, See, Southard, Sowa, Syty, Varughese, Wood, Woolcock; and professors emeriti Bordas, Costa, Fazio, McKelvey, Patsiga, Scroxton, Tackett, Wunz, Zambotti

Degrees offered by the Department of Chemistry are the Bachelor of Science in Chemistry, the Bachelor of Arts in Chemistry, and the Bachelor of Science in Education with a Chemistry major. The first two degree programs are under the College of Natural Sciences and Mathematics, and the third is under the College of Education and Educational Technology. The department also offers a Chemistry minor.

The B.S. in Chemistry is a professional degree and is certified by the American Chemical Society. The student completing this major should be qualified to assume a position in industry or government as a chemist or to apply for admission to graduate school to pursue advanced studies leading to the M.S. or Ph.D. degree. The student considering going to a professional school who also wishes to complete this degree should elect appropriate courses as required by the professional school in addition to the courses required here. Those students who are particularly interested in biochemistry should elect a few selected biology courses.

The curriculum leading to the B.A. in Chemistry is designed to allow for the workable union of nonscience areas with chemistry in such a way as to retain the fundamental science and mathematics requirements needed for a career in chemistry. A careful selection of electives will qualify the student for entrance into many fields in which there is an acute need for educated people and, at the same time, satisfy the entrance requirements of various professional and graduate schools.

Some possible and useful combinations between chemistry and other disciplines would include chemistry-biology, chemistry-business administration, chemistry-computer science, chemistry-criminology, chemistry-government, chemistry-pre-dental, chemistry-pre-law, chemistry-safety science, chemistry-pre-medicine, and chemistry-English (technical writing). The student must arrange a practical sequence of non-chemistry courses in consort with his/her advisor and the department chairperson concerned. A student seeking a career in forensic science should major in chemistry. The department also offers pre-medical programs in both the B.S. and B.A. curricula. These programs prepare the student to satisfy the entrance requirements of medical schools.

The curriculum leading to the B.S. in Education with a Chemistry major is designed to prepare the student to teach chemistry at the secondary school level. Upon completion of the specified coursework and the requirements for teacher certification processes, the student is eligible for Pennsylvania certification by the Pennsylvania Department of Education.

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# The College of Natural Sciences and Mathematics

### **Bachelor of Arts-Chemistry**

Liberal Studies: As outlined in Liberal S with the following specifications: Mathematics: MATH 121 or MATH 123 Natural Science: PHYS 111/PHYS 121-PHYS 13 PHYS 131/PHYS 141-PHYS 132/PHYS 142 Liberal Studies electives: MATH 122 OR MATH 123	<u>12/PHYS 122</u> or	56-57
Major:		29
Required courses:		
CHEM 113 Concepts in Chemistry	4sh	
CHEM 114 Basic Inorganic Chemistry CHEM 231 Organic Chemistry I	4sh 4sh	
	4sh	
CHEM 321 Quantitative Analysis	4sh	
CHEM 322 Instrumental Analysis	4sh	
CHEM 341 Physical Chemistry I CHEM 343 Physical Chemistry Laboratory I	4sh	
CHEM 343 Physical Chemistry Laboratory 1	ISII	
Other Requirements:		15-21
Planned program in complementary field	15sh (1)	
(advisor approval) with 6sh in		
300/400 level courses (2) Foreign Language Intermediate Level	0-6sh	
roreign hanguage intermediate hever	0 0311	
Free Electives:		17-24
Total Degree Requirements:		124
10car Degree Requirements.		-2-1

- (1) Recommended fields: Biology, Business, Computer Science, Criminology, Dietetics, Economics, English, Foreign Language, Geoscience, Mathematics, Safety Science, Physics, Political Science, Psychology.
- (2) Chemistry Pre-Med program requires: BIOL 111, BIOL 112, BIOL 263, BIOL 331.
- (3) Intermediate-level Foreign language may be included in Liberal Studies electives.

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# The College of Natural Sciences and Mathematics

### **Bachelor of Science-Chemistry**

Liberal Studies: As outlined in Liberal Studies section 56-57 with the following specifications: Mathematics: MATH 123 Natural Sciences: PHYS 131/PHYS 141-PHYS 132/PHYS 142 Liberal Studies electives: MATH 124, no courses with CHEM prefix Major: Required courses: CHEM 113 Concepts in Chemistry 4sh <u>CHEM 114</u> Basic Inorganic Chemistry 4sh (1) CHEM 231 CHEM 232 Organic Chemistry I Organic Chemistry II 4sh 4sh Chemistry Seminar CHEM 301 CHEM 321 CHEM 322 Quantitative Analysis 4sh Instrumental Analysis CHEM 341 Physical Chemistry I 4sh CHEM 342 CHEM 343 CHEM 344 Physical Chemistry II 3sh Physical Chemistry Laboratory I Physical Chemistry Laboratory II 1sh 1sh CHEM 410 Advanced Inorganic Chemistry Laboratory CHEM 411 Advanced Inorganic Chemistry Controlled electives: Additional Chemistry electives from list: 6sh (2) CHEM 331, CHEM 335, CHEM 351, CHEM 376, CHEM 412, CHEM 421, CHEM 441, CHEM 498 7-14 Other Requirements: Additional math: COSC 110 and one additional course from MATH 171, MATH 227, MATH 241, MATH 342 Pre-Med program (3) Foreign Language Intermediate Level (4) 0-6sh 9-17 Free Electives: (5) Total Degree Requirements: 124

- (1) Those who took <u>CHEM 111</u> and <u>CH112</u> should take <u>CHEM 116</u> for American Chemical Society (ACS) certified B.S.
- (2) <u>CHEM 498</u> (2sh) required for ACS certification.
- (3) Chemistry/Pre-Med program requires <u>BIOL 111</u>, <u>BIOL 112</u>, <u>BIOL 263</u>, <u>BIOL 331</u>, <u>BIOL 352</u>, and <u>CHEM 351</u>.
- (4) Intermediate-level Foreign Language may be included in Liberal Studies electives.
- (5) Pre-med requires Biology sequence 18sh.

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# The College of Natural Sciences and Mathematics

56-57

### **Bachelor of Science in Education-Chemistry (\*)**

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 121 Natural Science: PHYS 111/PHYS 121-PHYS 112/PHYS 122 Social Science: PSYC 101 Liberal Studies electives: GEOS 111 or 113, MATH 124, no courses with CHEM prefix 32 Professional education sequence: (1) COMM 301 Technology for Learning and Instruction 3sh EDSP 202 EDSP 377 EDUC 242 Educational Psychology 3sh Educational Tests and Measurements Pre-student Teaching Clinical Experience I 3sh 1sh EDUC 342 Pre-student Teaching Clinical Experience II 1sh EDUC 441 EDUC 442 Student Teaching 12sh School Law 1sh EDUC 451 Teaching Science in the Secondary Schools 3sh Education of Students with Disabilities in EDEX 301 Inclusive Secondary Settings American Education in Theory and Practice 2sh FDED 202 3sh 33-35 Major: Required courses: CHEM 113 Concepts in Chemistry 4sh <u>CHEM 114</u> Basic Inorganic Chemistry 4sh CHEM 231 CHEM 232 Organic Chemistry I 4sh Organic Chemistry II 4sh CHEM 321 Quantitative Analysis 4sh CHEM 322 Instrumental Analysis 4sh CHEM 341 Physical Chemistry I 4sh CHEM 343 Physical Chemistry Laboratory I 1sh CHEM 498 Problems in Chemistry 1-2shControlled electives: One additional chemistry course from list: 3-4sh<u>CHEM 342, CHEM 351, CHEM 411</u> 5 Other Requirements: BIOL 111 Principles of Biology I 4sh Free Electives: 0 126-129 (#)Total Degree Requirements:

- (\*) See requirements leading to teacher certification, titled "Admission to Teacher Education," in the College of Education and Educational Technology section of this catalog.
- (#) See advisory paragraph Timely Completion of Degree Requirements in catalog section on Requirements for Graduation.

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# The College of Natural Sciences and Mathematics

### **Minor-Chemistry**

Minor:					20
Required cou	rses:				
<u>CHEM 111</u> G	eneral	Chemistry	I	4sh	
<u>CHEM 112</u> G	eneral	Chemistry	II	4sh	
<u>CHEM 231</u> O	rganic	Chemistry	I	4sh	
<u>CHEM 232</u> O	rganic	Chemistry	II	4sh	
One chemistr	y elect	ive from			
<u>CHEM 321</u> , <u>CH</u>	EM 323,	<u>CHEM 351</u>			4sh

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# The College of Natural Sciences and Mathematics

### **Department of Computer Science**

Gary L. Buterbaugh, Chairperson; Ali, Cross, Cunningham, Micco, Oblitey, O'Neil, Shubra, Watts, Wolfe, Yang; and professor emeritus Tompkins

The programs in Computer Science at IUP lead to the B.S. or B.A. degree and are designed primarily to prepare graduates for productive work in highly computer-dependent areas of business, government, and industry. In recent years, majors graduating from the program have attained their first jobs in business applications, programming and systems analysis, computer software development, scientific and applied mathematical programming, and other computer-related areas and have gone to graduate school.

In a rapidly developing field such as Computer Science, it is important that the graduate's education be broad and fundamental so that new trends can more readily be followed. Our goal is to balance fundamentality and breadth with sufficient supervised practice so that our graduates are productive at the time they graduate but ready and willing to change with the field.

Most applied computer scientists work in cooperation with professionals trained in other areas and with managers. Hence, the ability to work and communicate with others of different educational backgrounds is an important characteristic. To that end, we encourage Computer Science majors to take a strong minor (or area concentration) in a second area of interest. Some students may wish to double major. Majors in other disciplines at IUP are also welcome to take Computer Science courses for which they are qualified or a Computer Science minor.

Students majoring in Computer Science should set their goals beyond simple programming and should be preparing

- 1. to program well, both in design and implementation phases, and document what they have programmed
- 2. to analyze real-world problems in preparation for program design and implementation
- 3. to manage activities that are strongly computer dependent
- 4. to improve the tools that programmers and systems analysts use, i.e., to develop
  - a. better software systems
  - b. better graphical user interfaces
  - c. better languages for communicating with computers
  - d. better web-based interfaces and databases
  - e. better methods for solving intractable problems
- 5. to teach about computers at college or high school level
- 6. to advance the fundamental theory of digital information processors.

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Total Degree Requirements:

# The College of Natural Sciences and Mathematics

### **Bachelor of Arts-Computer Science** (@)

```
Liberal Studies: As outlined in Liberal Studies section 55-58
with the following specifications:

Mathematics: MATH 123 (or MATH 121-MATH 122)
Liberal Studies electives: MATH 216 (or MATH 214 or MATH 217),
no courses with COSC prefix
Major:
                                                                                35
Required courses:
COSC 105
COSC 110
Problem Solving and Structured Problem Cosc 220
Applied Computer Programming
COSC 300
Assembly Language Programming
             Problem Solving and Structured Programming 3sh
           Data Structures
<u>COSC 310</u>
COSC 315
COSC 380
           Large File Organization and Access
Seminar on the Computer Profession
                                                                   3sh
                                                                   1sh
COSC 480
           Seminar on Technical Topics
Controlled electives: Select 9sh (1)
COSC 250 Introduction to Numerical Methods
                                                                   3sh
COSC 304
           Interactive Internet Programming
                                                                    3sh
             with Java
             Software Engineering Concepts
                                                                    3sh
COSC 320 Software Engineering Practice
COSC 345 Data Communications
                                                                   3sh
                                                                    3sh
COSC/IFMG 354 Testing and Controlling LANS
COSC 355 Computer Graphics
             Computer Graphics
                                                                    3sh
COSC 360
             IBM Job Control Language
COSC 362
COSC 481
             UNIX Systems
                                                                    3sh
             Special Topics in Computer Science
             (as approved for majors)
                                                                1-4sh
COSC 482
COSC 493
                                                                1-4sh
            Independent Study
             Internship in Computer Science
                                                                 12sh (2)
           Data Warehousing and Mining
Upper-level Electives by Categories
                                                                6sh (3)
Computer Architecture: COSC 410
Theory of Languages: <a href="COSC 419">COSC 420</a>,
COSC 424, COSC 460
Systems Programming: COSC 430, COSC 432
Numerical Methods: COSC 450, COSC 451
Artificial Intelligence: COSC 405
Data Base Management: COSC 441, COSC 444
Other Requirements:
                                                                              6-22
Additional Writing:
ENGL 322 Technical Writing
                                                                   3sh
                                                            0-6sh (4)
Foreign Language Intermediate Level
Additional Mathematics:
                                                            3-13sh(5)
MATH 123 Calculus for Physics, Chemistry,
and Mathematics (MATH 121 and MATH 122)
MATH 216 Probability and Statistics for Natural Sciences (MATH 363 and MATH 364 or MATH 217
and MATH 417 may be substituted)
MATH 219 Discrete Mathematics
                                                                              9-28
Free Electives:
```

124

- (@) Program revisions pending IUP Council of Trustees approval.
- (1) Select at least 9sh from the list of controlled electives and/or the list of upper-level electives. Note: Only 4sh of COSC 493 may be counted toward these 9sh.
- (2) <u>COSC 493</u> may be selected in either the second semester of the junior year or the first semester of the senior year. If <u>COSC 493</u> is selected and approved, <u>COSC 380</u> should be taken in the immediately preceding semester.
- (3) Select at least two additional courses, from at least two different categories, from the list of upper-level electives.
- (4) Foreign Language intermediate-level courses are counted as Liberal Studies electives.
- (5) Any of the Mathematics options satisfy the Learning Skill requirement, and one course may be counted as a Liberal Studies elective. The 3sh minimum applies to students who take MATH 123 and MATH 216. The 13sh maximum applies to students who take the MATH 121-MATH 122 calculus option and the MATH 363-MATH 364 statistics option..

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# The College of Natural Sciences and Mathematics

# **Bachelor of Science-Computer Science/Applied Computer Science Track** (@)

```
Liberal Studies: As outlined in Liberal Studies section 54-58
with the following specifications: Mathematics: MATH 123 (or MATH 121-MATH 122)
Liberal Studies electives: MATH 216 (or MATH 214 or MATH 217),
no courses with CO prefix
Major:
                                                                                       38
Required courses:
COSC 105
COSC 110
Problem Solving and Structured Problem Cosc 220
Applied Computer Programming
COSC 300
Assembly Language Programming
           Problem Solving and Structured Programming 3sh
Applied Computer Programming 3sh
Assembly Language Programming 3sh
COSC 310 Data Structures
COSC 315 Large File Orga
COSC 319 Software Engine
           Large File Organization and Access
                                                                      3sh
             Software Engineering Concepts
                                                                     3sh
COSC 380
COSC 441
COSC 480
            Seminar on the Computer Profession
            Data Base Management
Seminar on Technical Topics
                                                                      3sh
                                                                     1sh
Select one of the following two courses:
              Software Engineering Practice
                                                              12sh (2)
             Internship in Computer Science
Controlled electives: Select 6sh (3)
COSC 250 Introduction to Numerical Methods
                                                                    3sh
              Interactive Internet Programming
              with Java
                                                                      3sh
            Data Communications
COSC/IFMG 354 Testing and Controlling LANs
COSC 355 Computer Graphics
                                                                3sh
                                                                     3sh
             IBM Job Control Language
COSC 360
COSC 362
COSC 481
                                                                     1sh
            UNIX Systems
            Special Topics in Computer Science
              (as approved for majors)
                                                                   1-4sh
            Independent Study
                                                                   1-4sh
IFMG 455
            Data Warehousing and Mining
Upper Level Electives by Categories: Select 3sh (4)
Computer Architecture: COSC 410
Data Base Management: COSC 444
Theory of Languages: COSC 419, COSC 420, COSC 424, COSC 460
Systems Programming: COSC 430, COSC 432
Numerical Methods: <a href="COSC 450">COSC 451</a>
Artificial Intelligence: COSC 405
                                                                                    6-22
Other Requirements:
Additional Writing:
ENGL 322 Technical Writing
                                                              0-6sh (5)
Foreign Language Intermediate Level
                                                              3-13sh (6)
Additional Mathematics:
MATH 123 Calculus for Physics, Chemistry,
and Mathematics (MATH 121 and MATH 122
or MATH 127 may be substituted)

MATH 216 Probability and Statistics for
Natural Sciences (MATH 363 and MATH 364 or MATH 217
and MATH 417 may be substituted)
MATH 219 Discrete Mathematics
Complete a minor from one of the following areas:
                                                                                    6-18
```

a)	From any department in the College of Natural	Sciences
	and Mathematics	6-18sh
b)	From designated Business courses	18sh
c)	From designated Economics courses	15sh
d)	From designated Geography courses	15sh
e)	From designated Communications Media courses	18sh

Free Electives: 0-20

#### Total Degree Requirements:

124

- (@) Program revisions pending IUP Council of Trustees approval.
- (1) Credit for both <u>COSC 320</u>: Software Engineering Practice and <u>COSC 493</u>: Internship in Computer Science may be counted toward the degree, but only one will be counted toward the major requirements.
- (2) <u>COSC 493</u> may be selected in either the second semester of the junior year or the first semester of the senior year. If <u>COSC 493</u> is selected and approved, <u>COSC 380</u> may be taken in the immediately preceding semester.
- (3) Select at least 6sh from the list of controlled electives and/or the list of upper-level electives.
- (4) Select at least one additional course from the list of upper-level electives.
- (5) Foreign Language intermediate-level courses are counted as Liberal Studies electives.
- (6) Any of the Mathematics options satisfy the Learning Skill requirement, and one course may be counted as a Liberal Studies elective. The 3sh minimum applies to students who take MATH 123 and MATH 216. The 13sh maximum applies to students who take the MATH 121-MAH 122 calculus option and the MATH 363-MATH 364 statistics option.

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# The College of Natural Sciences and Mathematics

### **Bachelor of Science-Computer Science/Languages and Systems Track** (@)

```
with the following specifications: Mathematics: MATH 123 (or MATH 121-MATH 122)
Liberal Studies electives: MATH 124,
no course with CO prefix
Major:
Required courses:
                                                                                                                                                                 41
COSC 105
COSC 110
Problem Solving and Structured Pr
COSC 220
Applied Computer Programming
COSC 300
Assembly Language Programming
                       Problem Solving and Structured Programming 3sh
Applied Computer Programming 3sh
Assembly Language Programming 3sh
COSC 310
COSC 315
COSC 380
COS
                       Large File Organization and Access
Seminar on the Computer Profession
                                                                                                                                            3sh
                                                                                                                                            1sh
COSC 410
COSC 420
COSC 432
                        Processor Architecture and Microprogramming 3sh
                       Modern Programming Languages
                           Introduction to Operating Systems
Seminar on Tocker 7
                                                                                                                                            3sh
                       Seminar on Technical Topics
Controlled electives: Select 9sh (1)
COSC 250 Introduction to Numerical Methods
                                                                                                                                        3sh
COSC 304
                           Interactive Internet Programming
                          with Java
                                                                                                                                             3sh
COSC 320
COSC 345
                       Software Engineering Practice
Data Communications
                                                                                                                                            3sh (2)
                                                                                                                                            3sh
COSC/IFMG 354 Testing and Controlling LANs
COSC 355 Computer Graphics
COSC 360 IBM Job Control L
                                                                                                                                            3sh
                            IBM Job Control Language
                                                                                                                                            1sh
                        UNIX Systems
                           Artificial Intelligence
                        Software Development with Ada
COSC 424
COSC 430
COSC 441
                           Compiler Construction
                                                                                                                                            3sh
                            Introduction to Systems Programming
                                                                                                                                           3sh
                            Data Base Management
                                                                                                                                             3sh
COSC 444
                           Productivity Tools and Fourth Generation
                           Language
                                                                                                                                             3sh

    COSC
    450

    COSC
    451

    COSC
    460

    COSC
    481

                            Applied Numerical Methods
                           Numerical Methods for Supercomputers
                                                                                                                                        3sh
                            Theory of Computation
                                                                                                                                         3sh
                          Special Topics in Computer Science
                                                                                                                                 1-4sh
                           (as approved for majors)
COSC 482
COSC 493
IFMG 455
                        Independent Study
                           Internship in Computer Science
                                                                                                                              12sh (3)
                        Data Warehousing and Mining
                                                                                                                                          3sh
                                                                                                                                                         13 - 25
Other Requirements:
Additional writing:
                                                                                                                                          3sh
                                                                                                                                0-6sh (4)
ENGL 322 Technical Writing
Foreign Language Intermediate Level
                                                                                                                              10-12sh (5)
Mathematics: A minor in mathematics
including the following courses

MATH 123

Calculus for Physics, Chemistry,
and Mathematics (MATH 121 and MATH 122)
                       Calculus II for Physics, Chemistry, and Mathermatics
Introduction to Linear Algebra
Probability and Statistics for Natural Sciences
MATH 124
MATH 171
MATH 216
                           (MATH 363 and MATH 364)
MATH 219
                        Discrete Mathematics
```

Liberal Studies: As stated in Liberal Studies Requirements 54-58

Free Electives: 0-16

#### Total Degree Requirements:

124

- (@) Program revisions pending IUP Council of Trustees approval.
- (1) Select at least 9sh from the list of controlled electives. Note: Only 4sh of <u>COSC 493</u> may be counted toward these 9sh.
- (2) Credit for both <u>COSC 320</u>: Software Engineering Practice and <u>COSC 493</u>: Internship in Computer Science may be counted toward the degree, but only one will be counted toward the major requirements.
- (3) <u>COSC 493</u> may be selected in either the second semester of the junior year or the first semester of the senior year. If <u>COSC 493</u> is selected and approved, <u>COSC 380</u> may be taken in the immediately preceding semester.
- (4) Foreign Language intermediate-level courses are counted as Liberal Studies electives.
- (5) Credit for MATH 123 and MATH 124 are counted in Liberal Studies.

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# The College of Natural Sciences and Mathematics

### **Minor-Computer Science** (@)

Minor: 15 (@)
Required courses:
COSC electives 15sh(1) (2) (3)

- (@) Program revisions pending IUP Council of Trustees approval.
- (1) The minor in Computer Science consists of 15sh of COSC electives. At least 9sh of the 15sh must be from COSC courses numbered higher than 200.
- (2) <u>COSC 101</u> is an appropriate entry course for minors or for students who wish to take only one course. However, <u>COSC 101</u> cannot be counted as a part of a Computer Science minor by Management Information Systems (MIS) majors.
- (3) See Computer Science minor advisor for suggestions.

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# The College of Natural Sciences and Mathematics

### **Department of Geoscience**

Darlene S. Richardson, Chairperson; Cercone, Hall, Hovan, Putirka, Sutton, Taylor; and professor emeritus Park

The Department of Geoscience provides curricula in areas of natural science dealing with and related to the earth and its environment by offering courses in astronomy, geology, meteorology, and oceanography.

In addition to on-campus instruction, opportunities exist for summer coursework and research in geology and oceanography at the Marine Science Consortium located at Wallops Island, Virginia.

Degrees offered by the department are the Bachelor of Science in Geology, the Bachelor of Science in Environmental Geoscience, and the Bachelor of Science in Education with a major in Earth and Space Science or with a major in General Science. The first two degree programs are under the College of Natural Sciences and Mathematics, and the last two are under the College of Education and Educational Technology.

The B.S. degree in Geology is, in a sense, a dual-purpose degree program. Not only is it designed to graduate well-trained, competent geologists, able to compete for positions as professional geologists in the job market; it is also designed to provide the student with the necessary allied science and mathematics background to enable the good student to qualify for admission to the graduate school of his/her choice in Geology.

The B.S. degree in Environmental Geoscience offers the student a broad-based science background. In addition to a firm foundation in Geology-Geoscience courses, the student will also acquire a background in Biology and Chemistry. This will provide thorough training for the rapidly growing field of Environmental Geoscience, both for students who plan to pursue postgraduate training in this field and for those who plan to enter directly into jobs in federal and state agencies and private consulting firms.

The department recognizes as one of its functions the role of serving the field of public education by the preparation of qualified and certified teachers of earth and space science. Also, because of the interdisciplinary nature of both the department and the requirements for preparing general science teachers, the department administers the program designed to lead to general science certification and includes majors of that category as department members.

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# The College of Natural Sciences and Mathematics

### **Bachelor of Science-Geology**

```
Liberal Studies: As outlined in Liberal Studies section 56-57
with the following specifications:
Mathematics: MATH 121 or MATH 123
Natural Science: <a href="https://www.natural.chem.org/">CHEM 111/CHEM 111/CHEM 111/CHEM 111/CHEM 111/CHEM 113/CHEM 114</a>
Liberal Studies electives: MATH 124,
no courses with GEOS elective
                                                                   42
Major:
Required courses: (1)
GEOS 121
            Physical Geology
GEOS 122
GEOS 131
            Physical Geology Laboratory
                                                      1sh
            Historical Geology
                                                       3sh
GEOS 132
            Historical Geology Laboratory
                                                      1sh
GEOS 321
GEOS 322
            Mineralogy
                                                       3sh
            Igneous and Metamorphic Petrology
                                                      3sh
GEOS 325
            Structural Geology
                                                       3sh
GEOS 326
            Field Geology or summer field course
            (offered by other universities)(1,2)
                                                      3sh
            Paleontology
                                                       3sh
GEOS 362
            Plate Tectonics
                                                       3sh
GEOS 411
            Sedimentary Petrology
                                                      3sh
GEOS 412
            Stratigraphy or
GEOS 327
                                                      3sh
            Geomorphology
<u>GEOS 48</u>0
            Geoscience Seminar
                                                      1sh
                                                      9sh
Controlled electives:
GEOS courses 300 or above
                                                                 8-14
Other Requirements:
Additional Science:
PHYS 111/121
                      Physics I Lecture/Lab
                                                           4sh
PHYS 112/122
                      Physics II Lecture/Lab
                                                           4sh
Foreign Language Intermediate Level (3,4) 0-6sh
Free Electives:
                                                                11-18
                                                                  124
Total Degree Requirements:
```

- (1) Summer field camp in geology (5-9sh) is strongly recommended.
- (2) A maximum of six credits from approved summer field camp may apply to a required core and controlled electives (3sh).
- (3) Intermediate-level Foreign Language may be included in Liberal Studies electives.
- (4) 6sh of computer languages substitute for the foriegn language requirement: <u>COSC 110</u> and <u>COSC 310</u>, or other higher-level COSC courses with departmental permission in consultation with the Computer Science Department.

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### The College of Natural Sciences and Mathematics

### **Minor-Geology**

The minor in Geology consists of 17 semester hours. Required are <u>GEOS 121</u>: Physical Geology/<u>GEOS 122</u>: Physical Geology Lab and <u>GEOS 131</u>: Historical Geology/<u>GEOS 132</u>: Historical Geology Lab. Three upper-level (300 or higher) courses in geology (total nine credits) will make up the remaining requirements for the minor in Geology totaling seventeen credits.

Minor:		17
Required courses:		
GEOS 121 Physical Geology	3sh	
GEOS 122 Physical Geology Laboratory	1sh	
GEOS 131 Historical Geology	3sh	
GEOS 132 Historical Geology Laboratory	1sh	
Three upper-level (300 or higher)		
courses in Geology	9sh	

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# The College of Natural Sciences and Mathematics

### **Bachelor of Science-Environmental Geoscience**

```
Liberal Studies: As outlined in Liberal Studies section
                                                                               56-57
with the following specifications: Mathematics: \underline{\text{MATH } 121} or \underline{\text{MATH } 123}
Natural Science: <a href="https://www.natural.chem.org/">CHEM 111/CHEM 111/CHEM 111/CHEM 111/CHEM 111/CHEM 113/CHEM 114</a>
Liberal Studies electives: MATH 122 or MATH 124,
no courses with GEOS prefix
                                                                                    29
Major:
Required courses:
GEOS 121 Physical Geology
GEOS 122
GEOS 131
              Physical Geology Laboratory
                                                                          1sh
              Historical Geology
                                                                          3sh
            Historical Geology Laboratory
                                                                          1sh
GEOS 310
GEOS 321
            Environmental Geology
                                                                          3sh
              Mineralogy
                                                                          3sh
GEOS 322
              Igneous and Metamorphic
                                                                          3sh
GEOS 325
GEOS 331
GEOS 332
             Structural Geology
                                                                          3sh
             Hydrogeology
                                                                          3sh
              Geochemistry
                                                                          3sh
GEOS 380
              Research Techniques in Geoscience
                                                                          2sh
GEOS 480
              Geoscience Seminar
Other Requirements:
                                                                                    23 - 30
Biology sequence:
BIOL 111 Principles of Biology
BIOL 250 Principles of Microbia
                                                                          4sh
             Principles of Microbiology
Chemistry sequence:
            Organic Chemistry
<u>CHEM 231</u>
                                                                          4gh
CHEM 323
              Analytical Methods
                                                                          4sh
Controlled electives:
                                                                               8-9
BIOL 112, 272, 321, 362, CHEM 322, 341, COSC 110, 250, 310, GEOG 314, 343, 415, 417, GEOS 326, 327, 411, 412, 432, 440 PHYS 111/121 (1), PHYS 112/122
One summer field course from: GEOS 331, 336, 337, or 338
Foreign Language Intermediate Level (2,3)
                                                                   0-6sh
Free Electives:
                                                                                 8-16
                                                                                  124
Total Degree Requirements:
```

- (1) Students who plan to pursue an advanced degree in environmental geoscience are strongly advised to take the physics sequence as their controlled electives.
- (2) Intermediate-level Foreign Language may be included in Liberal Studies electives.
- (3) 6sh of computer languages substitute for the foriegn language requirement: <u>COSC 110</u> and <u>COSC 310</u>, or other higher-level COSC courses with departmental permission in consultation with the Computer Science Department.

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# The College of Natural Sciences and Mathematics

#### **Minor-Geoscience**

The requirement for the minor in Geoscience will be 16 semester hours of geoscience, taken within the following framework. Students must complete one course in each discipline within the department: Astronomy, 3 semester hours; Geology, 4 semester hours; Meteorology, 3 semester hours; Oceanography, 3 semester hours, for a total of 13 semester hours. The additional 3 semester hours can be taken in any one of the aforementioned disciplines. Liberal Studies nonlaboratory courses GEOS 141, GEOS 150, GEOS 151, and GEOS 221 will not be acceptable toward the minor in Geoscience.

Minor:	16
Required courses:	
One course from each of the following:	
Astronomy	3sh
Geology	4sh
Meteorology	3sh
Oceanography	3sh
Additional 3sh from one of the above fields	
(300 level or higher)	3sh

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### The College of Natural Sciences and Mathematics

### **Bachelor of Science in Education-Earth and Space Science (\*)**

```
Liberal Studies: As outlined in Liberal Studies section
                                                                     55-56
with the following specifications: Mathematics: \underline{\text{MATH } 121} or \underline{\text{MATH } 123}
Natural Science: CHEM 111-CHEM 112 or CHEM 113-CHEM 114
Social Science: PSYC 101
                                BEDU 101/COSC 101/IFMG 101, PHYS 111,
Liberal Studies electives:
no courses with GEOS prefix
                                                                          30
College:
Professional Education Sequence: (1)
COMM 301
EDSP 202
EDSP 377
            Technology for Learning and Instruction
                                                                3sh
            Educational Psychology
                                                                3sh
            Educational Tests and Measurements
                                                                3sh
EDUC 242
            Pre-student Teaching Clinical Experience I
                                                                1sh
EDUC 342
EDUC 441
            Pre-student Teaching Clinical Experience II
                                                                1sh
            Student Teaching
                                                               12sh
EDUC 442
            School Law
                                                                1sh
EDUC 451
            Teaching Science in the Secondary Schools
                                                                3sh
FDED 202
            American Education in Theory and Practice
                                                                3sh
Major:
                                                                          39
Required courses:
BIOL 103
          General Biology I
                                                                4sh
GEOS 121
            Physical Geology
                                                                3sh
GEOS 122
            Physical Geology Laboratory
GEOS 131
GEOS 132
            Historical Geology
                                                                3sh
            Historical Geology Laboratory
                                                                1sh
GEOS 341
            Solar System
                                                                3sh
GEOS 342
GEOS 350
            Stellar Astronomy
                                                                3sh
            Operation of the Planetarium
                                                                1sh
GEOS 361
                                                                3sh
            Oceanography
<u>GEOS 371</u>
            Meteorology I
                                                                3sh
            Physics II Lecture
                                                                3sh
            Physics I Lab
                                                                1sh
            Physics II Lab
Controlled electives:
Geology electives (not GEOS 101, GEOS 103, GEOS 105,
GEOS 111, GEOS 113, GEOS 141)
                                                                 6sh
                                                                           0
Other Requirements:
Free Electives:
```

Total Degree Requirements:

124-125

- (\*) See requirements leading to teacher certification, titled <u>Admission to Teacher Education</u> in the College of Education and Educational Technology section of this catalog.
- (1) Special Education Competency Requirement: Revision pending will eliminate exam option and will require <u>EDEX</u> 301 (2sh).

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### The College of Natural Sciences and Mathematics

### **Bachelor of Science in Education-General Science Education (\*)**

```
Liberal Studies: As outlined in Liberal Studies section
                                                                                        55-56
with the following specifications: Mathematics: \underline{\text{MATH } 121} (1)
Natural Science: CHEM 111-CHEM 112
Social Science: <a href="PSYC 101">PSYC 101</a>
Liberal Studies electives: BEDU 101/COSC 101/IFMG 101,
no courses with prefix of chosen track in major
                                                                                             30
College:
Professional Education sequence: (1)
COMM 301 Technology for Learning and Instruction EDSP 202 EDSP 377 Educational Psychology Educational Tests and Measurements
                                                                            3sh
                                                                            3sh
             Educational Tests and Measurements
                                                                            3sh
EDUC 242
             Pre-student Teaching Clinical Experience I
                                                                            1sh
EDUC 342
EDUC 441
             Pre-student Teaching Clinical Experience II
                                                                            1sh
               Student Teaching
                                                                           12sh
EDUC 442
               School Law
                                                                            1sh
EDUC 451
              Teaching Science in the Secondary Schools
             Teaching Science in the Science, Line American Education in Theory and Practice
                                                                            3sh
FDED 202
                                                                            3sh
Major:
                                                                                        39 - 40
Required courses:
BIOL 103 General Biology I
                                                                            4sh
BIOL 104
              General Biology II
                                                                            4sh
            Earth Science for Educators I
<u>GEOS 111</u>
            Earth Science for Educators I Lab
GEOS 112
GEOS 113
                                                                            1sh
              Earth Science for Educators II
                                                                            3sh
GEOS 114
             Earth Science for Educators II Lab
                                                                            1sh
<u>PHYS 111</u>
              Physics I Lecture
                                                                            3sh
PHYS 112
               Physics II Lecture
                                                                            3sh
PHYS 121
               Physics I Lab
                                                                            1sh
PHYS 122
               Physics II Lab
                                                                            1sh
                                                                      15-16sh
Controlled electives:
Biology track: <u>BIOL 210</u>, <u>BIOL 220</u>, <u>BIOL 250</u>,
BIOL 272, BIOL 480, BIOL elective
Chemistry track: CHEM 231, CHEM 321, CHEM 351, CHEM 232, or CHEM 340 or CHEM 341
Geoscience track: GEOS 121, GEOS 123, GEOS 131, GEOS 341 or GEOS 342, GEOS 361, GEOS 371
Physics track: PHYS 222, PHYS 231, PHYS 242, PHYS 331, PHYS 350 (2)
Other Requirements:
Free Electives:
                                                                                     124-126
(#)Total Degree Requirements:
```

- (\*) See requirements leading to teacher certification, titled <u>Admission to Teacher Education</u> in the College of Education and Educational Technology section of this catalog.
- (1) Special Education Competency Requirement: Revision pending will eliminate exam option and will require <u>EDEX</u> 301 (2sh).
- (2) Note: If Physics track is elected, MATH 123 and MATH 124 are required.
- (#) See advisory paragraph Timely Completion of Degree Requirements in catalog section on Requirements for

#### Graduation.

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# The College of Natural Sciences and Mathematics

### **Department of Mathematics**

Gerald M. Buriok, Chairperson; Adkins, Alarcon, Anderson, Baker, Balenovich, Bertness, Broughton, Burkett, Davis, Donley, Dubovsky, Early, Enderson, Feldman, Frank, Gorman, Maderer, Massey, Mitchell, Morgan, Myers, Peterson, P. Ray, Reber, Shawer, Shepler, Steelman, Stempien, G. Stoudt, R. Stoudt, Walker, Zhang; and professors emeriti Angelo, Arms, Duncan, Gibson, Hartman, Hoyt, D. McBride, R. McBride, Morrell, Mueller, Oakes, Rettig, E. Smith, W. Smith, Stilwell, Willison, Woodard

The Department of Mathematics prepares students for work in industry, graduate school mathematics, and teaching. Degrees offered by the department are the Bachelor of Science in Mathematics, the Bachelor of Science in Applied Mathematics, and the Bachelor of Science in Education with a major in Mathematics Education. The first two degree programs are offered within the College of Natural Sciences and Mathematics, and the third is in conjunction with the College of Education and Educational Technology. The department also offers a minor in Mathematics and a minor in Applied Statistics.

The program for a mathematics major in the College of Natural Sciences and Mathematics is two-phased. A student may pursue a degree in Applied Mathematics or Mathematics. Those completing a degree in Mathematics will be prepared to continue their studies in mathematics in graduate school, though some may enter business, industry, or government service. Those students receiving a degree in Applied Mathematics will be primarily prepared to enter business, industry, or government service in an area where mathematics or computer science is used or to continue their studies in applied mathematics or computer science in graduate school. This student would not be expected to continue graduate studies in pure mathematics.

The department shares in a joint degree with the Economics Department. Students with ability and interest in economics discover that a solid background in mathematics is an essential prerequisite for advanced theoretical and applied work in the discipline. Similarly, students with talent and interest in mathematics find economics an excellent field in which to employ their skills and knowledge. The Bachelor of Arts in Mathematics/Economics allows students to combine these complementary subjects in a joint degree program administered cooperatively by the departments of Mathematics and Economics. Enrolled students will be assigned an advisor in each department.

Those completing the program will have an exceptional background for graduate study in economics and such related fields as business, public policy, or operations research. They also will be ideally prepared to fill a wide variety of technical and quantitative positions in both government and private industry.

The program leading to the B.S. in Education with a major in Mathematics Education prepares the student for teaching mathematics in junior or senior high school. Many graduates, however, continue their formal education in mathematics at the graduate level or work in government or industry.

Elementary education majors may elect to take a concentration of at least 15 semester hours in mathematics. The program of courses for this concentration is as follows: in addition to MATH 151 and MATH 152, select 9 semester hours from the following courses: MATH 317, MATH 420, MATH 456, MATH 457, MATH 458, MATH 459, MATH 471, or MATH 481.

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# The College of Natural Sciences and Mathematics

### **Bachelor of Science-Applied Mathematics**

Liberal Studies: As outlined in Liberal Studies section with the following specifications:  Mathematics: (included in major)  Liberal Studies electives: no courses with MATH prefix		50-52
Major:		40-41
Required courses:		
MATH 123 Calculus I for Physics, Chemistry, and Mathematics	4sh	
MATH 124 Calculus II for Physics, Chemistry, and	_,	
Mathematics	4sh	
MATH 171 Introduction to Linear Algebra MATH 216 Probability and Statistics for Natural Sciences	3sh 4sh	
MATH 241 Differential Equations	3sh	
MATH 271 Introduction to Algebraic Structures	3sh	
MATH 272 Introduction to Mathematical Proofs II MATH 480 Senior Seminar	3sh 1sh	
MATH 100 SCHIOL SCHINGL	1311	
Controlled electives: (1)		
Two courses from list:  MATH 371, MATH 421, MATH 422, MATH 423, MATH 424,	6sh	
MATH 427, MATH 421, MATH 422, MATH 423, MATH 424, MATH 427, MATH 477		
One of the following two-course sequences:	5-7sh	
<u>MATH 342/COSC 450</u> or <u>COSC 451</u> or <u>MATH 451</u> ; MATH 363-364; MATH 445-446		
A minimum of three additional semester		
hours from the list of controlled		
electives above or the following:  MATH 353, MATH 425, MATH 447, MATH 465, MATH 481	3sh	
MAIN 333, MAIN 423, MAIN 447, MAIN 403, MAIN 401	3811	
Other Requirements:		6-12
Computer Science:	2 1-	
COSC 110 Problem Solving and Structured Programming COSC 250 Introduction to Numerical Methods	3sh 3sh	
Foreign Language Intermediate Level (2) 0-6sh	3811	
Free Electives:		19-28
LICE FIECCIACS:		19-20
Total Degree Requirements:		124

- (1) A student may select courses to fulfill requirements for specialized track.
  - a. Actuarial/Statistics: MATH 363, MATH 364, MATH 366, MATH 371, MATH 421, MATH 446, MATH 465
  - b. Math Analyst/Engineering: <u>MATH 342/COSC 450</u>, <u>COSC 451</u>, <u>MATH 371</u>, <u>MATH 423</u>, <u>MATH 447</u>, <u>MATH 451</u>
  - c. Operations Research: <u>MATH 371</u>, <u>MATH 421</u>, <u>MATH 445/MATH 446</u>, <u>MATH 447</u>
  - (2) Intermediate-level Foreign Language may be included in Liberal Studies electives.

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# The College of Natural Sciences and Mathematics

### **Bachelor of Science-Mathematics**

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: (included in major) Liberal Studies electives: no courses with MATH prefix	50-52
Major: Required courses:  MATH 123	
Controlled electives:  Four courses from list:  MATH 371, MATH 421, MATH 422, MATH 423, MATH 424,  MATH 427, MATH 476, MATH 477  A minimum of three additional semester hours  from the list of controlled electives above or the following: MATH 342, MATH 350, MATH 353,  MATH 355, MATH 363, MATH 364, MATH 425, MATH 445,  MATH 446, MATH 447, MATH 465, MATH 481	-
Other Requirements: Computer Science: COSC 110 Problem Solving and Structured Programming 3sh Foreign Language Intermediate Level (1) 0-6sh	3-9
Free Electives:	22-31
Total Degree Requirements:	124

(1) Intermediate-level Foreign Language may be included in Liberal Studies electives.

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# The College of Natural Sciences and Mathematics

### **Bachelor of Arts-Economics/Mathematics**

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Social Science: ECON 121 (included in major) Mathematics: MATH 123 (included in major) Electives: Intermediate foreign language, no course with ECON or MATH prefix.	47-49		
Major:	53-55		
Core:  ECON 121    Principles of Economics I  ECON 122    Principles of Economics II  ECON 421    Macroeconomics Analysis  ECON 422    Microeconomics Analysis  MATH 123    Calculus I for Physics, Chemistry, and Mathematics  MATH 124    Calculus II for Physics, Chemistry, and Mathematics  MATH 171    Introduction to Linear Algebra  MATH 216    Probability and Statistics for Natural Sciences	3sh 3sh 3sh 4sh 4sh 4sh		
or			
	4sh		
Economics Electives:  Students are especially encouraged to take  ECON 334 (Economics of Corporate Decisions) and  ECON 356 (Econometrics), but any course except  ECON 101 (Basic Economics) may be used.  ECON 493 (Internship) may be counted only with the approval of the program coordinator and only up to 6sh.			
Mathematics Electives:	15-16sh		
At least one of the following two-semester sequences:  MATH 241 Differential Equations <b>and</b> MATH 371 Linear Algebra  MATH 363 <b>and</b> MATH 364 Mathematical Statistics I and II  MATH 445 <b>and</b> MATH 446 Programming and Probabilistic Models in O.R.			
Three additional courses either from the above or from the f MATH 271			
Other Requirements:	0		
Free Electives:	20-24		
Total Degree Requirements:	124		

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

### The College of Natural Sciences and Mathematics

### **Bachelor of Science in Education-Mathematics Education (\*) (@)**

Liberal Studies: As outlined in Liberal Studies section with the following specifications:  Mathematics: (included in major)  Social Science: PSYC 101  Liberal Studies electives: no courses with MATH prefix	50-52
College: Professional Education sequence:  EDSP 202	ch ch ch sh sh ch
MATH 123 Calculus I for Physics, Chemistry, and Mathematics 4s  MATH 124 Calculus II for Physics, Chemistry, and Mathematics 4s  MATH 171 Introduction to Linear Algebra 3s  MATH 216 Probability and Statistics for Natural Sciences 4s  MATH 271 Introduction to Mathematical Proofs I 3s  MATH 272 Introduction to Mathematical Proofs II 3s  MATH 353 Theory of Numbers 3s  MATH 355 Foundations of Geometry I 3s  MATH 350 History of Mathematics 2s  MATH 460 Technology in Mathematics Instruction 3s  Two of the following:	sh h h sh sh sh
Other Requirements: COSC 205 Programming Languages for Secondary Schools 3s	<b>3</b>
Free Electives:	2-4
Total Degree Requirements:	124

- (@) Program revisions pending IUP Council of Trustees approval.
- (\*) See requirements leading to teacher certification, titled <u>Admission to Teacher Education</u> in the College of Education and Educational Technology section of this catalog.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

### The College of Natural Sciences and Mathematics

#### **Minor in Mathematics**

The minor in Mathematics consists of a minimum of 17 semester hours in mathematics. The minor in Mathematics may offer preparation for advanced study in areas such as Economics, Computer Science, Physics, and other natural sciences. Any student who is required to take a year of calculus should consider this minor.

Required courses: 17sh

MATH 121 and MATH 122 or MATH 123 and MATH 124

Controlled electives 9sh (1)

Other courses for math majors, MATH 216
and MATH 219 may be included

(1) The following courses are excluded: <u>MATH 100</u>, <u>MATH 101</u>, <u>MATH 102</u>, <u>MATH 110</u>, <u>MATH 117</u>, <u>MATH 214</u>, <u>MATH 217</u>, <u>MATH 417</u>, <u>MATH 418</u>, and courses for the elementary education concentration in mathematics.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

### The College of Natural Sciences and Mathematics

### **Minor in Applied Statistics**

The minor in Applied Statistics, consisting of 16 semester hours, may be of interest to students who are required to take a calculus course and a course in probability and statistics. This includes, but is not limited to, students in the Eberly College of Business and Information Technology, Safety Science majors, and Computer Science majors.

A cumulative GPA of at least 2.0 in MATH courses is required for a minor in Mathematics or Applied Statistics. The Mathematics Department will not certify a minor for a transfer student unless at least two of the courses counting for the minor have been completed in the IUP Mathematics Department.

#### 16sh selected as follows:

- (a) Introductory calculus course: MATH 121 or MATH 123
- (b) Introductory statistics course: MATH 214 or MATH 216 or MATH 217
- (c) MATH 417
- (d) MATH 418

The remaining hours may be chosen from the following:

- (a) a second calculus course: MATH 122 or MATH 124
- (b) <u>MATH 171</u>
- (c) OBUS 215
- (d) Any course for mathematics majors approved by the Applied Statistics Advisor.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

### The College of Natural Sciences and Mathematics

### **Natural Science**

#### Andrew C. Browe, Coordinator

The program leading to the Bachelor of Science degree in Natural Science is designed to prepare students for early admission to professional schools\_optometry, podiatry, chiropractic, physical therapy, pharmacy, and dentistry. Another track prepares students for further study in engineering. The B.S. degree in Natural Science will be earned by students who transfer to professional schools that have an articulation agreement with IUP. In some cases, students interested in obtaining a four-year baccalaureate degree before entering a medical or professional school should enroll in a program of studies leading to a B.A. or B.S. degree in the departments of Biology or Chemistry. Students considering a professional career in a high-technology business or industry may wish to obtain a foundation in the Natural Sciences while using their free electives to pursue additional work in areas such as Economics, Pre-Law, or a minor in Business Administration. The B.S. in Natural Science may not be used for a second major or a second degree by majors in the College of Natural Sciences and Mathematics. For further information about these programs, contact the coordinator of the Natural Science Program.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# The College of Natural Sciences and Mathematics

43-44

### **Bachelor of Science-Natural Science**

Liberal Studies: As outlined in Liberal Studies section

with the following specifications: Mathematics: included in major Natural Science: included in major Liberal Studies electives: no courses with SCI prefix Synthesis: not required for three-year students who transfer to a professional school with an articulation agreement Writing Intensive: one course required for three-year students who transfer to a professional school with an articulation agreement	43-44
CHEM courses 8s	
Other Requirements: Foreign Language Intermediate Level (1) 0-6s COSC 101 Microbased Computer Literacy (2) 0-3s	
Free Electives:	25-37
Total Degree Requirements:	124

- (\*) Preprofessional advisors will outline the courses required for admission to a professional school.
- (1) Intermediate-level Foreign Language may be included in Liberal Studies electives.
- (2) Not required for tracks which include COSC 110 or COSC 250; may also be included in Liberal Studies electives.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# The College of Natural Sciences and Mathematics

### **Bachelor of Science - Natural Science/Pre-Chiropractic Track (\*)**

52-55

```
with the following specifications:
Mathematics: MATH 121
Natural Science: CHEM 111-CHEM 112
Social Science: PSYC 101, non-Western course
Liberal Studies electives:
                             COSC 101, MATH 217,
no courses with SCI prefix
Synthesis: not required for three-year students who
transfer to a professional school with an articulation agreement
Writing Intensive: one course required for three-year students
who transfer to a professional school with an articulation agreement
                                                                    30
Major:
Required courses:
BIOL 111
           Principles of Biology I
                                                           4sh
BIOL 150
BIOL 151
           Human Anatomy
                                                           3sh
           Human Physiology
                                                           4sh
BIOL 241
CHEM 231
CHEM 232
           General Microbiology
                                                           4sh
           Organic Chemistry I
           Organic Chemistry II
                                                           4sh
PHYS 111
           Physics I Lecture
                                                           3sh
PHYS 121
           Physics I Lab
                                                           1sh
            Physics II Lecture
                                                           3sh
           Physics II Lab
                                                           1sh
                                                                      4-6
Other Requirements:
Foreign Language Intermediate Level (1)
Free Electives:
Electives to meet minimum of 90 IUP sh and minimum
        of 24sh in Humanities and Social Sciences for
        admission to New York Chiropractic College
Maximum credits for work at New York Chiropractic
        College
                                                           34sh
Total Degree Requirements:
                                                                      124
```

Liberal Studies: As outlined in Liberal Studies section

- (\*) Accelerated three-year New York Chiropractic College (NYCC) program: students are admitted to the NYCC accelerated program only as incoming freshmen. A maximum of 35sh of work may be transferred after the first year at NYCC. Upon the completion of the first year of studies at NYCC, a transcript from NYCC is to be sent by the student to the dean of the College of Natural Sciences and Mathematics with a note requesting application materials for graduation.
- (1) 3 or 4 sh of Intermediate-level Foreign Language may be included in Liberal Studies electives.

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### The College of Natural Sciences and Mathematics

### **Bachelor of Science-Natural Science/Pre-Dentistry Track**

```
Liberal Studies: As outlined in Liberal Studies section
                                                                                 52-55
with the following specifications:
Mathematics: MATH 121
Natural Science: <a href="https://www.natural.com/chem/">CHEM 111 - CHEM 112</a>
Social Science: PSYC 101, non-Western course
Liberal Studies electives: MATH 216 or MATH 217, COSC 101, PHYS 111
Synthesis: one course
Writing Intensive: two courses, at least one in
College of Natural Sciences and Mathematics
                                                                                 31
Major:
Required courses:
          Principles of Biology I
BIOL 111
BIOL 112
                                                               4sh
            Principles of Biology II
                                                               4sh
BIOL 150
            Human Anatomy
                                                               3sh
BIOL 151
BIOL 241
            Human Physiology
                                                               4sh
            General Microbiology
                                                               3sh
CHEM 231
CHEM 232
            Organic Chemistry I
            Organic Chemistry II
                                                               4sh
PHYS 121
            Physics I Lab
                                                               1sh
            Physics II Lecture
                                                               3sh
PHYS 122
            Physics II Lab
                                                               1sh
                                                                                 4-6
Other Requirements:
Foreign Language Intermediate Level (1)
Free Electives:
                                                                                 29-34(1)
Total Degree Requirements
                                                                                 124
```

(1) Student is to work with his/her advisor to select appropriate free electives for professional school. Biochemistry and Ceramics are highly recommended courses.

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# The College of Natural Sciences and Mathematics

### **Bachelor of Science-Natural Science/Pre-Engineering Track**

Liberal Studies: As outlined in Liberal Studies sections: With the following specifications: Mathematics: MATH 123 Humanities/Philosophy and Religious Studies: PHIL 222	on	53
Natural Science: CHEM 111-CHEM 112 Social Science: ECON 121, PLSC 101 or PLSC 111 Liberal Studies electives: MATH 124, no courses with Synthesis: not required for three-year students Writing Intensive: one course required for three-year		
	students	
Major: Required courses:  COSC 110 COSC 250 MATH 171 MATH 241 MATH 342 PHYS 131 PHYS 132 PHYS 132 PHYS 132 PHYS 134 PHYS 135 PHYS 134 PHYS 134 PHYS 134 PHYS 134 PHYS 134 PHYS 135 PHYS 134 PHYS 135 PHYS 134 PHYS 135 PHYS	3sh 3sh 3sh 4sh 3sh 3sh	33-35
PHYS 141 Physics I-C Lab (or PHYS 121 Lab) PHYS 142 Physics II-C Lab	1sh 1sh	
PHYS 331 Modern Physics (2)	3sh	
Controlled electives: One package, depending on programmering:	ram	
CHEM 231 Organic Chemistry I CHEM 232 Organic Chemistry II	4sh 4sh	
Civil Engineering:  MATH 216 Probability and Statistics for Natural Sci Technical elective	4sh 3-4sh	
Electrical Engineering:  MATH 216 Probability and Statistics for Natural Sci Technical elective	4sh 3-4sh	
<pre>Industrial Engineering: MATH 216 Probability and Statistics for Natural Sci Technical elective</pre>	4sh 3-4sh	
Materials Science and Engineering:  CHEM 231 CHEM 232 Organic Chemistry I Organic Chemistry II	4sh 4sh	
Mechanical Engineering: Technical electives	6-8sh	
Other Requirements: Foreign Language Intermediate Level (1)		0-6
Free Electives:		9
Other Requirements: Two years at University of Pittsburgh School of Engine		out 64
(#)Total Degree Requirements	15	9-161

- (1) Intermediate-level Foreign Language may be included in Liberal Studies electives.
- (2) A 2.5 cumulative GPA is required for transfer to the University of Pittsburgh.
- (3) For curriculum information about the cooperative program in engineering with Drexel University, refer to the catalog section for the <u>Physics Department</u>.
- (#) See advisory paragraph <u>Timely Completion of Degree Requirements</u> in catalog section on Requirements for Graduation.

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# The College of Natural Sciences and Mathematics

52-55

### **Bachelor of Science-Natural Science/Pre-Optometry Track (\*)**

Liberal Studies: As outlined in Liberal Studies section

```
with the following specifications:
Mathematics: MATH 121
Natural Science: CHEM 111-CHEM 112
Social Sciences: PSYC 101, ECON 101, non-Western course
Liberal Studies electives:
                             MATH 216 or MATH 217, COSC 101,
no courses with SCI prefix
Synthesis: not required for three-year students
who transfer to a professional school with an
articulation agreement
Writing Intensive: one course required for three-year
students who transfer to a professional school
with an articulation agreement
Major:
Required courses:
BIOL 111
         Principles of Biology I
                                                            4sh
BIOL 1\overline{50}
           Human Anatomy
                                                            3sh
BIOL 151
BIOL 241
          Human Physiology
                                                            4sh
           General Microbiology
                                                           3sh
CHEM 231
           Organic Chemistry I
                                                            4sh
<u>CHEM 232</u>
           Organic Chemistry II
                                                            4sh
CHEM 351
           Biochemistry
                                                            4sh
PHYS 111
           Physics I Lecture
                                                           3sh
PHYS 121
           Physics I Lab
                                                            1sh
PHYS
           Physics II Lecture
                                                            3sh
           Physics II Lab
                                                            1sh
Other Requirements:
                                                                      0-7
Foreign Language Intermediate Level (1)
MATH 122 Calculus II for Business, Natural,
                                                           4sh (2)
and Social Sciences
Free Electives:
                                                                    29 - 39
Electives to meet minimum of
ninety IUP credits
                                                           0-3sh(3)
Credits from work at Pennsylvania
College of Optometry
                                                           34sh
Total Degree Requirements:
                                                                      124
```

- (\*) Accelerated three-year Pennsylvania College of Optometry (PCO) program: students are admitted to the PCO accelerated program only as incoming freshmen. A maximum of 34sh of work may be transferred after the first year at PCO. Upon the completion of the first year of studies at PCO, a transcript from PCO is to be sent by the student to the dean of the College of Natural Sciences and Mathematics with a note requesting application materials for graduation.
- (1) 3 or 4 sh of Intermediate-level Foreign Language may be included in Liberal Studies electives.
- (2) Required for many schools of optometry; recommended for PCO.
- (3) Additional electives if needed to meet minimum of 90 IUP sh should be selected from the following suggestions: <u>BIOL 112</u>: Principles of Biology II, <u>BIOL 263</u>: Genetics.

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### The College of Natural Sciences and Mathematics

### **Bachelor of Science - Natural Science/Pre-Physical Therapy Track**

```
Liberal Studies: As outlined in Liberal Studies section
                                                                  52-55
with the following specifications:
Mathematics: MATH 121
Natural Science: CHEM 111-CHEM 112
Social Science: PSYC 101, non-Western course
Liberal Studies electives: MATH 217, COSC 101,
no courses with SCI prefix
Synthesis: one course
Writing Intensive: two courses, at least one in
College of Natural Sciences and Mathematics
Major:
                                                                    31
Required courses:
         Principles of Biology I
                                                           4sh
BIOL 111
BIOL 112
           Principles of Biology II
                                                           4sh
BIOL 150
BIOL 151
           Human Anatomy
                                                           3sh
           Human Physiology
                                                           4sh
CHEM 231
CHEM 351
           Organic Chemistry I
           Biochemistry
                                                           4sh
PHYS 111
           Physics I Lecture
                                                           3sh
PHYS 121
           Physics I Lab
                                                           1sh
           Physics II Lecture
                                                           3sh
           Physics II Lab
Other Requirements:
                                                                  4 - 6
Foreign Language Intermediate Level
                                                                  32 - 37(1)
Free Electives:
Total Degree Requirements
                                                                 124
```

(1) A student should work with his/her advisor to select appropriate free electives for professional school.

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### The College of Natural Sciences and Mathematics

52-55

### **Bachelor of Science - Natural Science/Pre-Podiatry Track**

Liberal Studies: As outlined in Liberal Studies section

with the following specifications: Mathematics: MATH 121 Natural Science: CHEM 111-CHEM 112 Social Science: PSYC 101, non-Western course Liberal Studies electives: PHYS 111, MATH 217, COSC 101, Synthesis: not required for three-year students who transfer to a professional school with an articulation agreement Writing Intensive: one course required for three-year students who transfer to a professional school with an articulation agreement Major: Required courses: Principles of Biology I BIOL 111 4sh BIOL 112 Principles of Biology II 4sh BIOL 263 CHEM 231 Genetics 3sh Organic Chemistry I 4sh CHEM 232 CHEM 351 Organic Chemistry II Biochemistry 4sh PHYS 112 Physics II Lecture 3sh PHYS 121 Physics I Lab 1sh PHYS 122 Physics II Lab 1sh Controlled electives: Biology electives 3-6sh Other Requirements: 4-6 Foreign Language Intermediate Level Free Electives: Electives to meet minimum of ninety IUP credits Credits from work at Temple University College of Podiatric Medicine 34sh Total Degree Requirements 124

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### The College of Natural Sciences and Mathematics

### **Department of Physics**

Richard D. Roberts, Chairperson; Freeman, Gaggini, Giniewicz, Hershman, Karimi, Matolyak, Numan, Ramsey, Sobolewski, Talwar, Whitson, Wijekumar; and professors emeriti Berry, Buckwalter, Fox, Matous, McNamara, Riban, Waddell

The goal of the Department of Physics is to prepare fully qualified individuals for productive careers in physics. Three degrees are offered within the College of Natural Sciences and Mathematics: the Bachelor of Science in Physics, the Bachelor of Arts in Physics, and the Bachelor of Science in Applied Physics. These programs offer adequate preparation for graduate study in physics or for research in industrial technology. The applied physics degree provides a strong technical background for work in solid-state electronics or for interdisciplinary research in the areas of computer science, chemistry, biology, and geology. A Bachelor of Science degree in Education with a major in Physics is offered through the College of Education and Educational Technology. A two-year pre-engineering program is offered in cooperation with Drexel University wherein students transfer to Drexel after two years. The department also offers a minor in Physics, as well as general science courses which satisfy the Natural Science requirements of the Liberal Studies program.

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# The College of Natural Sciences and Mathematics

# Cooperative Pre-Engineering (Chemical, Civil, Electrical, Materials, Mechanical) Program with Drexel University

Common to all pre-engineering programs are the following science and mathematics requirements: \*PHYS 131/PHYS 141, PHYS 132/PHYS 142, PHYS 322, PHYS 342, \*MATH 123, \*MATH 124, MATH 171, MATH 241, \*CHEM 111, \*CHEM 112 (\*or appropriate substitute).

Further requirements depend on the particular engineering program chosen. Complete information regarding a specific program may be obtained from the physics department.

For information on the Cooperative Pre-Engineering program with the University of Pittsburgh, see the catalog section for <u>Natural Science</u> and the program outline for <u>"Bachelor of Science in Natural Science/Pre-Engineering."</u>

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## The College of Natural Sciences and Mathematics

## **Bachelor of Arts-Physics**

Liberal Studies: As outlined in Liberal Studies so with the following specifications:  Mathematics: MATH 123  Natural Science: PHYS 131/PHYS 141-PHYS 132/PHYS Liberal Studies electives: MATH 124, no courses with PHYS prefix		56-57
Major:		28
Required courses:		
PHYS 131 Physics I-C Lecture Phys 132 Physics II-C Lecture Phys 141 Physics II-C Lab Phys 142 Physics II-C Lab Phys 222 Mechanics I PHYS 223 PHYS 231 PHYS 322 Electronics PHYS 322 PHYS 323 PHYS 331 PHYS 331 PHYS 331 PHYS 350 PHYS 350 Intermediate Experimental Physics I PHYS 473 Quantum Mechanics I	*sh (1) *sh (1) *sh (1) *sh (1) 2sh 2sh 4sh 2sh 3sh 3sh 3sh 4sh	
Controlled electives: One additional PY majors course	3sh	
Other Requirements: Additional mathematics and computer science: COSC 110 Problem Solving and		22-28
Structured Programming	3sh	
MATH 241 Differential Equations MATH 342 Advanced Mathematics for Applications	3sh 4sh	
Additional natural science sequence	6sh	
Additional social or	- 1	
natural science sequence (advanced) Foreign Language Intermediate Level (2)	6sh 0-6sh	
Free Electives:		11-18
riee mieccives.		11-10
Total Degree Requirements:		124
iocai pediec vedairements:		124

- (1) Semester hours are counted in the Liberal Studies Natural Science Requirement
- (2) Intermediate-level Foreign Language may be included in Liberal Studies electives.

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## The College of Natural Sciences and Mathematics

## **Bachelor of Science-Physics**

```
Liberal Studies: As outlined in Liberal Studies section
                                                                    56-57
with the following specifications:
Mathematics: MATH 123
Natural Science: PHYS 131/PHYS 141-PHYS 132/PHYS 142
Liberal Studies electives: MATH 124, no courses with PHYS prefix
                                                                        37
Major:
Required courses:
                                                           *sh (1)
PHYS 131
           Physics I-C Lecture
PHYS 132
           Physics II-C Lecture
                                                           *sh (1)
PHYS 141
PHYS 142
           Physics I-C Lab
                                                           *sh (1)
           Physics II-C Lab
                                                           *sh (1)
PHYS 222
                                                           2sh
           Mechanics I
PHYS 223
PHYS 231
           Mechanics II
                                                           2sh
           Electronics
                                                           4sh
PHYS 242
           Optics
                                                           3sh
PHYS 322
PHYS 323
PHYS 331
           Electricity and Magnetism I
                                                           2sh
           Electricity and Magnetism II
                                                           2sh
           Modern Physics
                                                           3sh
PHYS 342
           Thermal and Statistical Physics
                                                           3sh
PHYS 350
PHYS 351
           Intermediate Experimental Physics I
                                                           3sh
            Intermediate Experimental Physics II
                                                           3sh
PHYS 473
           Quantum Mechanics I
                                                           4sh
Controlled electives:
One course from list: PHYS 472 or PHYS 490
                                                           3sh
One additional PHYS majors course
                                                                     13-19
Other Requirements:
COSC 110 Problem Solving and Structured Programming
                                                          3sh
MATH 241
MATH 342
           Differential Equations
                                                           4sh
           Advanced Mathematics for Applications
One from list: COSC 250, MATH 171, MATH 363,
MATH 421, MATH 423
                                                              3sh
                                                        0-6sh
Foreign Language Intermediate Level (2)
Free Electives:
                                                                     11-18
                                                                       124
Total Degree Requirements:
```

- (1) Semester hours are counted in the Liberal Studies Natural Science Requirement
- (2) Intermediate-level Foreign Language may be included in Liberal Studies electives.

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## The College of Natural Sciences and Mathematics

## **Bachelor of Science-Applied Physics**

Liberal Studies: As outlined in Liberal Studies section with the following specifications:  Mathematics: MATH 123  Natural Science: CHEM 111-CHEM 112  (replaced by CHEM 113-CHEM 114 for Chemistry track)		56-57
Liberal Studies electives: MATH 124, no courses with PHYS	S prefix	ζ
Major:		28
Required courses:  PHYS 131  Physics I-C Lecture PHYS 132  Physics II-C Lecture PHYS 141  Physics I-C Lab PHYS 142  Physics II-C Lab PHYS 222  Mechanics I PHYS 231  Electronics PHYS 242  Optics PHYS 322  Electricity and Magnetism I PHYS 331  Modern Physics PHYS 352  Applied Physics Laboratory	3sh 3sh 1sh 1sh 2sh 4sh 3sh 2sh 3sh	
PHYS 355 Computer Interfacing	3sh	
Other Requirements:		9-15
MATH 241 Differential Equations COSC 110 Problem Solving and Structured Programming COSC 250 Introduction to Numerical Methods Foreign Language Intermediate Level (1)	3sh 3sh 3sh 0-6sh	
Controlled electives: According to Track		23-27
Solid State Electronics Track: COSC 300, MATH 342, PHYS 323, PHYS 342, PHYS 353, PHYS 432, PHYS 475, PHYS 476	24sh	
Computer Science Track:         PHYS 342, PHYS 353, PHYS 432,           PHYS 475, PHYS 476, COSC 300, COSC 310, COSC 410,           COSC 450	27sh	
<pre>Chemistry Track: MATH 342, CHEM 231, CHEM 232, CHEM 323, CHEM 341, CHEM 342, CHEM 343</pre>	24sh	
Biology Track: BIOL 111, CHEM 231, BIOL 120, CHEM 323, CHEM 351, Two biology electives from the following: BIOL 263, BIOL 250, BIOL 472, BIOL 350, BIOL 401	27sh	
Geology Track: GEOS 121, GEOS 122, GEOS 131, GEOS 132 Five Geoscience electives from the following: GEOS 321, GEOS 325, GEOS 326, GEOS 362, GEOS 412, GEOS 440, GEOS 481	23sh	
Free Electives:		3-8
Total Degree Requirements:		124

(1) Intermediate-level Foreign Language may be included in Liberal Studies electives.

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## The College of Natural Sciences and Mathematics

## **Bachelor of Science in Education-Physics (\*)**

with the f Mathematic Natural Sc Social Sci Liberal St		<u>10</u> ,	56-57
COMM 301 EDSP 202	al Education sequence: (1)  Technology for Learning and Instruction  Educational Psychology	3sh 3sh	30
EDSP 377 EDUC 242 EDUC 342 EDUC 441 EDUC 442	Educational Tests and Measurements Pre-student Teaching Clinical Experience I Pre-student Teaching Clinical Experience II Student Teaching School Law	3sh 1sh 1sh 12sh 1sh	
EDUC 451 FDED 202	Teaching Science in the Secondary Schools American Education in Theory and Practice	3sh 3sh	
Major:			32
Required c PHYS 131 PHYS 132 PHYS 141 PHYS 142 PHYS 222 PHYS 223 PHYS 231 PHYS 242 PHYS 331 PHYS 342 PHYS 350  Controlled	Physics I-C Lecture Physics II-C Lecture Physics I-C Lab Physics II-C Lab Mechanics I Mechanics II	3sh 3sh 1sh 1sh 2sh 2sh 3sh 3sh 3sh 3sh	
Physics el		2sh	
Other Requ Additional MATH 124	Math courses: Calculus II for Physics, Chemistry,		8
MATH 342	and Mathematics Advanced Math for Applications	4sh	4sh
Free Electives:			0
(#)Total D	egree Requirements:		126-127

- (\*) See requirements leading to teacher certification, titled <u>Admission to Teacher Education</u> in the College of Education and Educational Technology section of this catalog.
- (1) Special Education Competency Requirement: Revision pending will eliminate exam option and will require <u>EDEX</u> 301 (2sh).
- (#) See advisory paragraph <u>Timely Completion of Degree Requirements</u> in catalog section on Requirements for Graduation.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

## The College of Natural Sciences and Mathematics

## **Minor in Physics**

To minor in Physics, a student must successfully complete 15 semester hours in Physics which must consist of at least three courses at the 200 level or higher.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

## The College of Natural Sciences and Mathematics

## **Department of Psychology**

Mary Lou Zanich, Chairperson; Barrett, Berman, Federoff, Gallen, Goodwin, Grover, Kaniasty, Laporte, Luo, Marquette, McHugh, Meil, Pavloski, Raeff, Rittle, Robertson, Roehrich, Sadler, Stires, Sussmann, Thornton, Walz, Zimny; and professors emeriti Magee, Patton, Rich, Schneider

The program in psychology leads to a Bachelor of Arts degree and is designed to give the student an understanding of the methods and major findings in the science of behavior and mental processes. The major offers the background required for graduate work in psychology and also preparation for such related fields as social work, personnel work, advertising, medicine, law, and theology. The department also offers a minor in psychology.

An honors program has been developed to enrich the education of qualified psychology majors and assist such students in gaining entrance to graduate school by providing classroom and research experiences which will prepare them for work at the graduate level.

A track in applied psychology offers students a firm background in the science of psychology, preparation for nonclinical applications of psychology to the solution of human and social problems in private and public organizations, and preparation for graduate study in the applied area of psychology. The core for the track is the same as for the psychology major; coursework in applied psychology is provided by enrolling in appropriate psychology electives and a carefully designed concentration of courses outside the department.

All psychology majors are required to take a minor or a concentration in another discipline.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

## The College of Natural Sciences and Mathematics

## **Bachelor of Arts-Psychology** (@)

```
Liberal Studies: As outlined in Liberal Studies section
                                                                             54-55
with the following specifications:
Mathematics: MATH 217
Natural Science: BIOL 103-BIOL 104 recommended
Social Science: PSYC 101
Liberal Studies electives:
                               BEDU 101/COSC 101/IFMG 101,
no courses with PSYC prefix
Major:
                                                                              34 - 39
Required courses:
PSYC 290
PSYC 291
                                                                       4sh
          Research Design and Analysis I
            Research Design and Analysis II
                                                                       4sh
Controlled electives:
A minimum of one course from each of these
six core areas: (1)
A. Developmental Psychology: PSYC 310, PSYC 311, PSYC 312,
                                                                     3-4sh(2)
B. Individual Differences: PSYC 320, PSYC 321, PSYC 325
C. Social/Environmental: PSYC 330, PSYC 331, PSYC 335 (3)
                                                                    3-4sh
                          PSYC 340, PSYC 341, PSYC 342,
D. Cognition/Learning:
                                                                     3-4sh
     345 (4)
E. Biological Bases of Behavior:
                                     PSYC 342, PSYC 352,
<u>PSYC 355</u>, <u>PSYC 356</u> (5)
                                                              3-4sh
F. Metatheoretical Perspectives in Psychology: PSYC 410,
                                                                       3sh
Other PSYC electives beyond PSYC 101
                                                                     3-5sh
                                                                              15-21
Other Requirements:
Foreign Language Intermediate Level (6)
                                                                    0-6sh
                                                                     15sh
Minor/concentration:
Free Electives:
                                                                               9-21
Total Degree Requirements:
                                                                                124
```

- (@) Program revisions pending IUP Council of Trustees approval.
- (1) At least two must be content-based laboratory courses.
- (2) Credit toward the major will be given for only one of <u>PSYC 310</u>, <u>PSYC 311</u>, or <u>PSYC 315</u>.
- (3) Credit toward the major will be given for only one of <u>PSYC 330</u> or <u>PSYC 335</u>.
- (4) Credit toward the major will be given for only one of <u>PSYC 342</u> or <u>PSYC 345</u>.
- (5) Credit toward the major will be given for only one of PSYC 342 or PSYC 356.
- (6) Intermediate-level Foreign Language may be included in Liberal Studies electives.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

## The College of Natural Sciences and Mathematics

## Bachelor of Arts-Psychology/Applied Psychology Track (@)

Liberal Studies: As outlined in Liberal Studies section with the following specifications:  Mathematics: MATH 217  Natural Science: BIOL 103-BIOL 104 recommended Social Science: PSYC 101, ECON 121  Liberal Studies electives: BEDU 101/COSC 101/IFMG 101, no courses with PSYC prefix		54-55
Major: Required courses:		38-41
PSYC 290 Research Design and Analysis I PSYC 291 Research Design and Analysis II PSYC 421 Psychology of Work PSYC 425 Experimental Organizational Psychology PSYC 493 Psychology Practicum (1)	4sh 4sh 3sh 4sh 3sh	
Controlled electives: A minimum of one course from each of these six core areas: (2)	)	
A. Developmental Psychology: PSYC 310, PSYC 311, PSYC 312, PSYC 315  B. Individual Differences: PSYC 320, PSYC 321, PSYC 325 C. Social/Environmental: PSYC 330, PSYC 331, PSYC 335 (4) D. Cognition/Learning: PSYC 340, PSYC 341, PSYC 342, PSYC 345 (5) E. Biological Bases of Behavior: PSYC 342, PSYC 355, PSYC 356 (6) F. Metatheoretical Perspectives in Psychology: PSYC 410, PSYC 411 Other PSYC electives beyond PSYC 101	3-4sh 3sh 3-4sh 3-4sh	(3)
Other Requirements:		15-21
Outside concentration:  ECON 122 Principles of Economics II  ECON 330 Labor Economics  ILR 480 Principles and Practices of Collective  Bargaining  2 courses, as approved by advisor (7)	3sh 3sh 6sh	
Foreign Language Intermediate Level (8)  Free Electives:	0-6sh	7-17
FIGG BIGCCIVED:		,-1,
Total Degree Requirements:		124

- (@) Program revisions pending IUP Council of Trustees approval.
- (1) Department recommends at least 6sh of <u>PSYC 493</u>.
- (2) At least two must be content-based laboratory courses.
- (3) Credit toward the major will be given for only one of PSYC 310, PSYC 311, or PSYC 315.
- (4) Credit toward the major will be given for only one of <u>PSYC 330</u> or <u>PSYC 335</u>.
- (5) Credit toward the major will be given for only one of <u>PSYC 342</u> or <u>PSYC 345</u>.
- (6) Credit toward the major will be given for only one of <u>PSYC 342</u> or <u>PSYC 356</u>.
- (7) Department highly recommends <u>PSYC 424</u> and recommends one course from business or another applied area.
- (8) Intermediate-level Foreign Language may be included in Liberal Studies electives.

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This information is maintained by the Office of the Registrar, with approval from the University Senate. Last Modified at 10:33 PM on 09/22/2000.

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## The College of Natural Sciences and Mathematics

## **Minor-Psychology**

Required courses:

PSYC 101 General Psychology 3sh (1)
PSYC 280 Psychological Inquiry 3sh

or

PSYC 290 Research Design and Analysis I 4sh (2)
Four other PSYC electives beyond PSYC 101 12sh (3) (4)

- (1) Meets Liberal Studies requirement.
- (2) Prerequisite MATH 217.
- (3) Selected in consultation with the director of the undergraduate program.
- (4) Credit toward minor will be given for only one of <u>PSYC 310</u>, <u>PSYC 311</u>, or <u>PSYC 315</u>.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

## The College of Natural Sciences and Mathematics

## **Minor-Psychological Science**

Required courses:

PSYC 101 General Psychology 3sh (1)

PSYC 290 Research Design and Analysis I 4sh (2)
One course from core areas A, B, or C 3-4sh (3)
One course from core areas D or E 3-4sh (3)

(1) Meets Liberal Studies requirement.

(2) Prerequisite: MATH 217.

One PSYC elective

(3) At least one course must be a content-based laboratory course.

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This information is maintained by the Office of the Registrar, with approval from the University Senate. Last Modified at 10:36 PM on 09/22/2000.

3-4sh

2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

## The School of Continuing Education

## **General Information**

The mission of the School of Continuing Education is to serve the lifelong educational needs of nontraditional students, working adults, professional organizations, local and state agencies, and the citizens of the commonwealth by providing access to the academic and human resources of IUP.

The School of Continuing Education was created by the IUP Board of Trustees in May, 1966. Today, the school comprises Credit Programs, Conferences and Noncredit Programs, the Criminal Justice Training Center, and the Vocational Personnel Preparation Center. The school is characterized by its commitment to academic excellence and high-quality programs. The school maintains a dynamic environment which fosters innovation and experimentation in order to improve programs continually and respond to the ever-changing needs of society.

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## The School of Continuing Education

## **Division of Credit Programs**

The Credit Programs area offers a variety of opportunities for the adult and nontraditional learner to access the academic resources of IUP on a part-time basis. Courses may be selected from day or evening offerings.

The Associate of Arts Degree in General Studies is designed for the nontraditional or adult learner who seeks to acquire a broad base of knowledge in the liberal arts. This program consists of the core of Liberal Studies requirements of the IUP bachelor's degree programs plus 9 to 12 semester hours of electives. The student is encouraged to develop a plan of study with his or her academic advisor which will bring focus to his or her interest in a particular area or subject. No more than 30 semester hours credits may be transferred into this degree program from other colleges.

The Bachelor of Science degree in General Studies is designed for the mature adult student, who under faculty advisement can explore and develop an individualized plan of study which does not approach any existing IUP major. This self-designed plan of study must be based on a specific theme which incorporates basic and applied coursework within a theoretical framework culminating in a senior-year independent research project. At the time of application for degree candidacy through the School of Continuing Education or transfer from another major, the student must submit a plan of study which contains the proposed theme, rationale, and courses needed to satisfy the Special Interest Area. A faculty member will be assigned to assist with the plan of study prior to acceptance to degree candidacy. Students other than School of Continuing Education students must have completed 45sh before a request for transfer will be honored.

The student's plan of study, which is designed to fulfill the Special Interest Area, must be approved by the student's advisor and the dean of the School of Continuing Education.

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## **The School of Continuing Education**

## **Associate of Arts-General Studies**

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## The School of Continuing Education

### **Bachelor of Science-General Studies**

Liberal Studies: As outlined in Liberal Studies section 53-54

General Area of Study 24

Choose at least 6sh from three of the four areas listed below. At least 12sh must be 300-level or above. Courses should relate to theme developed in Special Interest Area.

#### Arts, Letters, and Culture Area:

Art, Communications Media, English, French, German, Journalism, Music, Philosophy, Religious Studies, Spanish, Theater

### **Human Behavior and Development Area:**

Anthropology, Health, Home Economics, Psychology, Sociology

### Science, Mathematics, and Technology Area:

Biology, Chemistry, Computer Science, Geoscience, Mathematics, Physics

### Social and Political Systems Area:

Economics, Geography and Regional Planning, History, Industrial and Labor Relations, Political Science

Special Interest Area

21

With approval of advisor, student may select, from any department listed above, courses which focus on a particular need or interest. At least 12sh must be 300-level or above. The program must include either one research course which provides opportunities for extensive writing or an independent study project. Some courses will not be available to General Studies majors.

Electives
At least 6sh must be 300-level or above

Total Degree Requirements:

124

- (1) Individually planned theme may not duplicate any existing degree programs which are otherwise available at IUP, nor may they be used to circumvent specific requirements within an existing major.
- (2) No more than 30sh taken in any one department will count toward graduation.
- (3) In the application of university policies, the Special Interest Area is considered as the major. Specifically, in order to graduate, students must be in academic good standing and attain a 2.00 GPA in the Special Interest Area.

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## The School of Continuing Education

## **Part-time Studies Program (Nondegree)**

The Part-time Studies Program is designed to offer the adult and nontraditional learner the opportunity to begin or renew a college education at IUP. Through this program an individual may enroll in undergraduate credit courses to pursue personal interests, acquire new skills, or work toward formal admission to degree candidacy. Credit earned in this program may be applied to a degree upon formal admission to an IUP degree program.

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## The School of Continuing Education

## **Postbaccalaureate Program**

The Postbaccalaureate Program is designed to provide access to undergraduate courses to individuals who have an earned baccalaureate degree. Students may be seeking a second bachelor's degree, additional teacher certification, or personal enrichment. Postbaccalaureate students may attend IUP on a part-time or full-time basis.

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## The School of Continuing Education

## **Off-Campus Studies Program**

The Off-Campus Studies Program is designed to support the efforts of IUP and its faculty to offer academic programs at off-campus locations. The Master of Education, the Master of Arts in Adult and Community Education, the Executive MBA Program, the Master of Arts in Criminology, and the Master of Arts in Industrial and Labor Relations are offered in the IUP Center in Monroeville. In addition, the Executive MBA is offered in Johnstown and the Master of Science in Safety Sciences is available in Harrisburg. Undergraduate and graduate courses are also available periodically at various off-campus locations throughout the commonwealth.

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## The School of Continuing Education

## **Adult Advisement Services**

Adult Advisement Services provides the part-time, nontraditional, and adult learner access to academic exploration and planning through individual conferences and workshops. Seminars are offered throughout the year to provide the opportunity for adult learners to become acquainted with the many resources of the university.

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## The School of Continuing Education

### **Vocational-Technical Professional Studies**

Jane A. Whisner, Chairperson; Boyd, Debow, Dolecki, Durbin, Gamble, Keith, Monaco, Rivosecchi, Spewock, Sylves, Toth

The Vocational-Technical Professional Studies program offers undergraduate curricula that prepare preservice teachers, in-service teachers, supervisors, and administrators in vocational-technical education. Students enrolling in one of the vocational education programs may specialize in an area related to interest and/or previous work experience. Programs may lead to either a Bachelor of Science in Education degree with certification or to professional certification only. Program graduates have a broad range of employment opportunities as teachers/trainers in secondary schools, vocational-technical schools, postsecondary schools, and business and industry.

Certification to teach vocational-technical education in the commonwealth's secondary schools is issued to individuals who meet statutory requirements, demonstrate occupational/technical proficiency on a nationally standardized occupational competency examination, and complete 60 semester hours of the Pennsylvania Department of Education's approved university program. In the IUP program, a plan of studies will be tailored to each student's unique background (i.e., electrical, electronics, data processing, drafting, welding, dental, etc.) and professional needs.

Certification to serve as a cooperative education teacher-coordinator in the commonwealth's secondary schools can be earned by completing a program of studies tailored to each student's individual background and professional needs. The program prepares individuals for managing industrial cooperative training and school-to-work transitional experiences. For persons holding a valid Pennsylvania Instructional Certificate, the program of studies will be individualized based upon educational credits earned.

Each program offered by the Center for Vocational Personnel Preparation requires completion of the following semester hours:

Bachelor of Science in Education Cooperative Education Teacher/Coordinator certificate Vocational Technical Education Certificate 124sh 75sh 60-62sh

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## **The School of Continuing Education**

## **Bachelor of Science in Education-Vocational-Technical Education**

with the fo	udies: As outlined in Liberal Studies section ollowing specifications: ence: PSYC 101 udies electives: no courses with VOED prefix		53-55
College: Professions	al Educational sequence:		6
EDSP 202		3sh 3sh	
Major: Required co	ourges.		30
<u>VOED 100</u>			
Other Requi			27
ENGL 310	Public Speaking	3sh	
VOED 401	Preparation	3-12sh	
VOED 450 	Special Topics in Vocational Pedagogical Preparation Technical Preparation of the Vocational Prof. Other as approved	3-15sh 24sh	
Free Elect:	ives:		6-8
Total Degre	ee Requirements:		124

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## **The School of Continuing Education**

## **Certificate-Vocational-Technical Education**

Liberal Studies: As follows: Mathematics: MATH 101 English: ENGL 101 Humanities: one course from lists Fine Arts: one course from list Natural Science: one course, lab or non-lab Social Science: PSYC 101 Liberal Studies electives: one course, no course with VOED pre	<b>21-23</b>
College: Professional Educational sequence:  EDSP 202 Educational Psychology 3sh FDED 202 American Education in Theory and Practice 3sh	6
Major: Required courses:  ENGL 310 Public Speaking 3sh VOED 100 Preparation of the Vocational Professional I 15sh VOED 400 Preparation of the Vocational Professional II 15sh	33
Free Electives:	0
Total Certification Requirements:	60-62

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## **The School of Continuing Education**

# Certificate as Secondary School Cooperative Education Teacher/Coordinator

Liberal Studies: As follows:  Mathematics: MATH 101 English: ENGL 101 Humanities: one course from lists Fine Arts: one course from list Natural Science: one course, lab or non-lab Social Science: PSYC 101 Liberal Studies electives: one course, no courses with Natural Studies	21-23 /OED prefix
College:	6
Professional Educational sequence:  EDSP 202 Educational Psychology FDED 202 American Education in Theory and Practice	3sh 3sh
Major:	48
Required courses: ENGL 310 Public Speaking	3sh
VOED 100 Preparation of the Vocational Professional I VOED 400 Preparation of the Vocational Professional II VOED 402 Special Topics in Vocational Pedagogical	
Preparation	15sh
Free Electives:	
Total Certification Requirements:	75-77

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## The School of Continuing Education

## **Division of Conferences and Noncredit Programs**

#### Robert A. Friday, Acting Director

The School of Continuing Education offers a wide variety of noncredit programs which meet community needs in the areas of public service, professional development, and personal enrichment.

#### **Business and Technology**

Courses and workshops are offered in the following areas: Computer Literacy, Management Development, Small Business Development, and Customized Training. Courses may be offered at IUP or at the business/industry site, as preferred.

#### **Community-University Studies**

Noncredit courses and workshops are offered in Indiana, Kittanning, and Punxsutawney. Personal growth and enrichment topics include creative leisure, self-improvement, fitness, culinary arts, languages, money and finances, art/music/literature, Elderhostel, and Mornings with the Professors. There are no exams, no grades, and no pressure. The program is provided as a service to the community.

#### **Special Programs**

The education and training needs of health and human service professionals are met through course offerings, one-day workshops, seminars, and conferences. Additionally, Youth Experience in Summer (YES) provides educational enrichment for youth in elementary grades.

#### **Conferences**

The office facilitates conferences offered by academic departments during the year and hosts off-campus groups and organizations during the summer months. The conference staff also provides consulting services and coordinates conferences throughout the state for IUP and other organizations.

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## The School of Continuing Education

## **Criminal Justice Training Center**

#### Gary M. Welsh, Director

The Criminal Justice Training Center's role in both the university and the community is to provide high-quality education and training programs for the continuing professionalism of the criminal justice system.

These programs include seminars for in-service personnel in fulfillment of mandatory continuing education requirements. They are conducted on an "as needed" basis covering an unlimited range of topics, such as vehicle and criminal law updates, search and seizure, accident investigation, alcohol enforcement, and driver proficiency. Special programs are provided to offer the basic 600-hour academy training required for law enforcement service under Mandatory Act 120. Training under the Lethal Weapons Act 235 provides the basic requirements and mandatory recertification for armed security personnel.

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## Accounting

#### **Department of Accounting**

**Eberly College of Business and Information Technology** 

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

ACCT 201 ACCT 202 ACCT 281 ACCT 299 ACCT 300 ACCT 301 ACCT 302 ACCT 311 ACCT 321 ACCT 399 ACCT 401 ACCT 412 ACCT 422 ACCT 431 ACCT 435 ACCT 441 ACCT 451 ACCT 461 ACCT 471 ACCT 481 ACCT 482 ACCT 488 ACCT 493

*Note:* All courses at the 300 and 400 level are open only to students with junior or senior standing. All students, regardless of major or program affiliation, must meet course prerequisite requirements in order to enroll for a given course.

#### **ACCT 201 Accounting Principles I**

3c-01-3sh

Introduces the student to the accounting cycle in service and merchandising concerns using the single proprietorship form of business organization; covers use of special journals and subsidiary ledgers in the accounting system as well as accounting and internal control procedures for cash, receivables, inventory, and plant and equipment.

#### **ACCT 202 Accounting Principles II**

3c-01-3sh

**Prerequisites:** C or better in <u>ACCT 201</u>, sophomore status

Covers accounting principles and procedures for payroll, partnerships, corporations, long-term liabilities and investments, and manufacturing firms with a general accounting system. Introduces the student to cost accounting systems, financial statements analysis, budgeting, and use of accounting information in making managerial decisions.

#### **ACCT 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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#### **ACCT 299 Cooperative Education I**

0c-01-2sh

**Prerequisites:** Completion of 55 credits with a minimum GPA of 2.0 including at least a "C" in <u>ACCT 201</u>, <u>ACCT 202</u>, and <u>IFMG 241</u>, and approval of the cooperative advisor

The initial experience in a program designed to combine classroom theory with practical application through jobrelated experiences. Students are actively employed in the accounting area in business, industry, government, and a variety of organizations and agencies with a work focus which relates to their academic training and career objectives in accounting. The student is expected to complete subsequently ACCT 399 or an internship.

### **ACCT 300 Managerial Accounting**

3c-01-3sh

**Prerequisite:** ACCT 202 (not open to Accounting majors)

Emphasizes the use of accounting information in performing the managerial functions of planning, control, decision making, and performance evaluation. Note: Accounting majors will not be granted degree credit for ACCT 300.

#### **ACCT 301 Intermediate Accounting I**

3c-01-3sh

**Prerequisite:** C or better in <u>ACCT 202</u>

An overview of the foundation of accounting theory dealing with application of generally accepted accounting principles as promulgated in professional pronouncements to the reporting process and to accounting for various asset items in the financial statements.

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#### **ACCT 302 Intermediate Accounting II**

3c-01-3sh

**Prerequisite:** C or better in ACCT 301

Application of generally accepted accounting principles to various areas such as accounting for corporations, long-term investments in securities, bonds, pension costs, leases, etc.

#### **ACCT 311 Cost Accounting**

3c-01-3sh

**Prerequisite:** C or better in <u>ACCT 202</u>

Cost accounting methods and procedures including cost accumulation under job order cost system and process cost system, cost allocation, budgeting, and accounting for spoilage, joint, and by-products. The planning and control aspect of cost accounting is emphasized.

#### **ACCT 321 Federal Taxes**

3c-01-3sh

**Prerequisite:** C or better in ACCT 202

Acquaints the student with federal income tax laws as they apply to individual taxpayers and partnerships. (Offered as ACCT 421 prior to 1999-2000)

### **ACCT 399 Cooperative Education II**

0c-01-3sh

**Prerequisites:** ACCT 299; completion of 85 credits with an overall GPA of 2.0; a GPA of 2.3 in ACCT 301, 302, and 311 with at least a "C" in each course; and approval of the cooperative advisor

The subsequent course in cooperative education is designed to combine classroom theory with practical application through job-related experiences. Cooperative Education students are actively employed in the accounting area in business, industry, government, and a variety of organizations and agencies with a work focus which relates to their academic training and career objectives in accounting.

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#### **ACCT 401 Advanced Accounting**

3c-01-3sh

**Prerequisite:** ACCT 302

A study of accounting issues of specialized nature including partnerships, organization and liquidation, agency and branch accounting, accounting for business combinations, preparation of consolidated financial statements, accounting for government and not-for-profit entities, accounting for estates and trusts, and receivership accounting.

#### **ACCT 412 Advanced Cost Accounting**

3c-01-3sh

**Prerequisite:** C or better in ACCT 311

A study of budgets, standard costs, direct and absorption costing, analysis of cost variances, and extensive analysis of various cost control and profit planning programs.

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### ACCT 422 Federal Taxation of Corporations, Partnerships, Estates, and Trusts

3c-0l-3sh

Prerequisites: ACCT 302 and ACCT 321

An advanced course in federal income taxation as it applies to taxpayers other than individuals. Covers the tax treatment of those property transfers subject to federal and state gift and death taxes. The tax planning aspect of the various course topics as well as tax research methodology are also discussed.

### **ACCT 431 Auditing**

3c-01-3sh

Prerequisite: ACCT 302

A study of auditing theory and practical application of auditing standards and procedures to the review, testing, and evaluation of accounting controls and to the verification of transactions and balances to express an opinion in an audit report on the fairness of financial statements' presentation.

#### **ACCT 435 Internal Auditing**

3c-01-3sh

**Prerequisite:** ACCT 431

Covers four issues: foundations for internal auditing, administering internal auditing activities, operational areas, and special relationships and evaluation for internal auditing.

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#### **ACCT 441 Accounting for Government and Nonprofit Organizations**

3c-01-3sh

Prerequisite: ACCT 302

Presents the views of authoritative professional organizations as to desirable standards of accounting and reporting for governmental and nonprofit entities. Topics include budgeting and budgetary accounts, accounting for various funds, the general fixed assets group of accounts, the financial reporting process, and application of the principles of fund accounting in specific areas.

#### **ACCT 451 Seminar in Accounting Standards**

3c-01-3sh

Prerequisite: ACCT 302

A study of professional standards having authoritative support in the field of accounting. APB opinions, FASB interpretations, and SEC Accounting Series Releases are discussed.

#### **ACCT 461 Accounting Systems**

3c-01-3sh

Prerequisites: ACCT 302, ACCT 311, IFMG 300

A study of concepts, principles, and procedures of accounting system design, installation, implementation, auditing, and maintenance in relating to system objectives, information requirements, constraints, system elements, and considerations on a computerized basis.

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### **ACCT 471 International Accounting**

3c-01-3sh

**Prerequisites:** ACCT 311 for Accounting majors or ACCT 300 for non-Accounting majors

A comparative study of the effects of differences in cultural and business philosophies on national and international accounting policies. Specific financial accounting controversies, such as accounting for transactions involving foreign

currency exchanges, will be discussed. International management accounting topics will include international transfer pricing policies, performance evaluations of multinational managers and divisions, and management information systems. International aspects of financial planning, auditing, and taxation practices will also be reviewed.

### **ACCT 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

### **ACCT 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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#### **ACCT 488 Internship in Accounting (Industrial and Government)**

6sh

**Prerequisites:** Consent of departmental chairperson and dean, Eberly College of Business and Information Technology; cumulative 2.75 GPA and 3.0 GPA in accounting courses

Practical experiences, generally totaling 400 hours, in an industrial or government accounting setting.

#### **ACCT 493 Internship in Accounting (Public)**

6sh

**Prerequisite:** Consent of departmental chairperson and dean, Eberly College of Business and Information Technology; 3.00 cumulative GPA and 3.00 GPA in accounting courses

Practical experiences, generally totaling 400 hours, with a public accounting firm. Last modified at 11:13 PM on 09/22/2000.

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## **Administrative Services**

**Department of Technology Support and Training Eberly College of Business and Information Technology** 

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

#### ADMS 101 ADMS 221 ADMS 231 ADMS 321 ADMS 342 ADMS 481 ADMS 482

**Note:** All courses at the 300 and 400 level are open only to students with junior or senior standing. All students, regardless of major or program affiliation, must meet course prerequisite requirements in order to enroll for a given course.

#### **ADMS 101 Introduction to Business**

3c-01-3sh

An overview of the principles, practices, and methods common to most business firms in a private enterprise system. (Not open to juniors and seniors in Business)

#### **ADMS 221 Business Technical Writing**

3c-01-3sh

**Prerequisite:** ENGL 101

Application of business and technical writing styles, letters, memos, reports, procedures, and manuals are some areas of concern. Emphasis will be on clear, concise writing style. (May not be used as a substitute for ADMS 321)

#### **ADMS 231 Speech Communication for Professionals** 1c-0l-1sh

Students will study theory and principles of effective oral presentations in a professional setting. Content includes audience analysis, management of speech anxiety, topic selection and refinement, proper selection and use of visual aids, and speech forms. Students will build professional presentation skills as they fulfill course assignments to develop, critique, and deliver professional presentations.

#### **ADMS 321 Business and Interpersonal Communications**

3c-01-3sh

Prerequisite: ENGL 101, ENGL 202

A study of communication theory and principles as applied to business situations and practices; development of communication skills in areas of communication such as speaking, writing, listening, and nonverbal communicating. Emphasis will be on building effective interpersonal relations in a business environment.

### **ADMS 342 Intercultural Business Communication**

3c-01-3sh

**Prerequisite:** Junior standing

Provides an in-depth study and theoretical understanding of intercultural business communication, including international, national, ethnic, racial, and socioeconomic cultures. Students will explore practices, trends, and difficulties of people primarily identified with one culture, attempting to interact with people of another culture through speaking, listening, writing, and nonverbal means. Problems of intercultural communication situations for business will be pinpointed, elements of the problems clarified, and guidelines projected for problem mitigation.

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#### **ADMS 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are offered primarily for upper-level undergraduate students.

#### **ADMS 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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## **Anthropology**

## **Department of Anthropology College of Humanities and Social Sciences**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

ANTH 110 ANTH 211 ANTH 213 ANTH 222 ANTH 233 ANTH 244 ANTH 271 ANTH 272 ANTH 273 ANTH 274 ANTH 281 ANTH 286 ANTH 314 ANTH 315 ANTH 316 ANTH 317 ANTH 318 ANTH 320 ANTH 340 ANTH 350 ANTH 360 ANTH 365 ANTH 401 ANTH 415 ANTH 420 ANTH 444 ANTH 456 ANTH 480 ANTH 481 ANTH 482 ANTH 483 ANTH 493

### **ANTH 110 Contemporary Anthropology**

3c-01-3sh

An introduction to the nature of anthropological inquiry. By using the anthropological perspective, current relevant topics will be discussed. Topics could include, but are not limited to, changing myths and rituals, legal anthropology, cross-cultural aspects of aging, gender roles, evolutionism and creationism, cultural extinction, and world hunger.

#### **ANTH 211 Cultural Anthropology**

3c-01-3sh

Explores the nature of culture as a human survival technique. Provides a framework for appreciation and understanding of cultural differences and similarities in human societies, past and present.

#### **ANTH 213 World Archaeology**

3c-01-3sh

A survey of the prehistory of Western and non-Western cultures with emphasis on the development of technology and on the evolution of adaptive strategies with particular attention to the origins of agriculture. Exposes the students to the diversity of past cultural systems and to the methodological and theoretical questions of concern to archaeologists.

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#### **ANTH 222 Biological Anthropology**

3c-01-3sh

An introduction to the goals and techniques of biological anthropology with emphasis on primatology, paleoanthropology, genetics, and osteology. Provides a basis for evaluating the role of biology in human behavior.

#### **ANTH 233 Language and Culture**

3c-01-3sh

Focuses on social and cultural functions of language. Particular emphasis given to problems in anthropology with respect to non-Western languages.

### **ANTH 244 Basic Archaeology**

3c-01-3sh

An introduction to the goals and methods of anthropological archaeology with particular attention to the analysis of cultural chronology, past lifeways, and cultural process. Provides laboratory experience with artifacts and other archaeological data.

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#### **ANTH 271 Cultural Area Studies: Africa**

3c-01-3sh

Explores the cultural diversity of the continent of Africa. The first unit examines the historical processes which shape modern society, including the formation of indigenous African empires, the evidence for trade routes, slave trading, and colonialism. The second unit examines the nature of African traditional societies, including analyses of forager and agricultural groups. The last unit covers issues of contemporary development in Africa such as famine and agricultural policy, the status of women in economic development, and apartheid. Reading includes ethnographic and historical accounts of African society as well as selections by African writers on the issues of contemporary society. (Also offered as SOC 271; may not be taken for duplicate credit.)

#### **ANTH 272 Cultural Area Studies: China**

3c-01-3sh

Designed to assist the student in developing an understanding of contemporary China. While the course will begin with prehistoric and historic aspects of China, the focus will be on contemporary issues presented in the context of anthropological theory. Specific Chinese cultural components that will be investigated include values, attitudes, norms, social organization, linguistics, and folklore. (Also offered as SOC 272; may not be taken for duplicate credit.)

#### **ANTH 273 Cultural Area Studies: Southeast Asia**

3c-01-3sh

An introduction to the peoples and cultures of Southeast Asia. Prehistory and the development of indigenous states in the area and analysis of impact of world religions, such as Islam, and Western colonialism. Also examines modern hunter-gatherer and farming societies and discusses contemporary issues in social and economic change, including the Green Revolution, tropical deforestation, the struggle of ethnic minority tribal peoples, and the plight of Indochinese refugees. (Also offered as SOC 273; may not be taken for duplicate credit.)

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#### **ANTH 274 Cultural Area Studies: Latin America**

3c-01-3sh

An introduction to the peoples and cultures of Latin America. Focuses on the prehistory and development of pre-Columbian complex societies in Mesoamerica and the Andes and analyzes the impact of European colonialism on these major regions. Also examines contemporary issues, such as civil wars, economic development, rural-urban migrations, and migration and immigration of Latin American peoples into the United States. (Also offered as SOC 274; may not be taken for duplicate credit.)

#### **ANTH 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

#### ANTH 286 Marriage, Kinship, and the Family

3c-01-3sh

A sociological and anthropological study of patterns of marriage, kinship, and family life, with emphasis on the relationship between family patterns and other social institutions. Topics covered include the family and marriage in historical and comparative perspective; worldwide patterns of gender stratification; incest and incest avoidance; class and race contexts of family patterns; mate selection and love; parenthood and child rearing; domestic and sexual

violence; alternative family lifestyles; and the current crisis and possible future of the family. Intended for a broad audience but also open to sociology and anthropology majors and minors. (Also offered as SOC 286; may not be taken for duplicate credit.)

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#### **ANTH 314 Native Americans**

3c-01-3sh

A survey of culture history and culture area characteristics of the Indians of North America. Detailed study of representative groups related to historical, functional, and ecological concepts.

#### **ANTH 315 North American Archaeology**

3c-01-3sh

**Prerequisite:** ANTH 110 or 244 or permission of the instructor

A survey of North American prehistory with emphasis on cultural ecology and technology. Attention is given to all geographic areas north of Mexico, but the focus is on the Eastern Woodlands.

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#### **ANTH 316 Anthropology of Religion**

3c-01-3sh

**Prerequisite:** ANTH 110 or 211

Explores nature, function, and universal characteristics of religion in human society by utilizing cross-cultural approach. Theories concerning religious phenomena serve as topics for discussion.

#### **ANTH 317 Archaeology Research Design and Analysis**

3c-01-3sh

**Prerequisite:** ANTH 244 or permission of the instructor

An introduction to theory and method in archaeological research through lecture, laboratory exercises, and individual projects. Provides students with actual experience analyzing and interpreting archaeological data sets.

#### **ANTH 318 Museum Methods**

3c-01-3sh

Prerequisite: ANTH 110 or 211 or 244

Lecture and laboratory course surveying the role of museums as social and educational institutions, types of museums, museum administration, and museum architecture. Procedures for collection, curation, preservation, and storage of anthropological and natural history specimens examined.

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#### **ANTH 320 Archaeological Field School**

var-6sh

**Prerequisite:** ANTH 110, 244, or permission of instructor

An introduction to archaeological survey, field excavation, and laboratory processing. Field school students participate in one or more of the ongoing research projects of the IUP Archaeology Program.

### **ANTH 340 Anthropology of Aging**

3c-01-3sh

Introduces the student to various experiences faced by elderly people in numerous world societies. Explores the impact of such factors as ethnicity, nationality, race, and class and the processes of cultural change on the lives of people growing old. Comparative, cross-cultural perspectives will be stressed.

#### **ANTH 350 Anthropology of Women**

3c-01-3sh

Designed for any student with an interest in the lives of women around the world, regardless of whether or not he or she has a strong background in anthropology. Examines the social roles, rights, and responsibilities of women crossculturally, viewing both women's productive (economic) functions as well as reproductive functions. Reading describes the position of women in technologically simple societies and addresses the comparative position of women in the industrialized socialist and capitalist countries. The central theme of the course is an examination of how the position of women changed in the twentieth century.

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## **ANTH 360 Applied Anthropology**

3c-01-3sh

Applied anthropology focuses on the anthropologist as an agent of social change and bridges the gap between theories of cultural behavior and the policies which affect contemporary cultures. Examines the historical role of anthropologists in early public administration and then examines at length the work of contemporary applied anthropologists in programs of international economic development (health, agriculture, and education), in domestic human service planning and delivery, in cultural resource preservation, and in their role as advocates for unempowered minorities.

## **ANTH 365 Native North American Religions**

3c-01-3sh

An introduction to the indigenous religions of North America and to the peoples who practice these rich and varied approaches to the sacred. This course not only examines major religious themes and dimensions (myth, ritual, ethics, etc.) but includes a historical perspective on North American Indian lifeways. This perspective involves discussion of the clash with Euro-American values and contemporary native religious responses to social crisis and change. (Also offered as RLST 365; may not be taken for duplicate credit)

## **ANTH 401 Social and Cultural Change**

3c-01-3sh

Prerequisite: ANTH 110 or SOC 151

An exploration of current theoretical perspectives on social and cultural change. Special attention given to planned change at the local or regional level.

## **ANTH 415 Cultural Resource Management**

3c-01-3sh

**Prerequisite:** ANTH 244 or consent of the instructor

Provides an understanding of how cultural resources are being preserved and managed under current American laws and regulations with particular emphasis on historic properties, such as historic buildings and archaeological sites. Case studies and field trips are incorporated so that students gain a thorough understanding of key problems and issues in historic preservation and cultural resource management.

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## **ANTH 420 Cultural Ecology**

3c-01-3sh

**Prerequisite:** ANTH 110 or 211

Introduces the student to the field of ecological anthropology by exploring the concept of the ecosystem in relationship to varying human adaptive strategies. Illustrates the importance of understanding man-environment interactions both in studying the developing world and in investigating the past.

## **ANTH 444 Medical Anthropology**

3c-01-3sh

**Prerequisite:** 9sh in ANTH or permission

Focuses on the study of human confrontation with disease and illness and on the adaptive arrangements made by various human groups for dealing with these dangers. Health and disease are viewed from a broad array of micro and macro perspectives, e.g., evolutionary, ecological, and psychosocial. Designed for nursing and social work students as well as social and biological sciences students.

#### ANTH 456 Field Research Methods

3c-01-3sh

**Prerequisite:** 9sh in ANTH

An examination of methods and practice of sociology and anthropology in the areas of qualitative and quantitative methods. Concentrates upon the development of field notes, interviewing techniques, participant observation, etc. Qualitative methods of sampling and analysis will include theoretical sampling and analytic induction. Brief background research into community, organizational, and group structure will also be emphasized.

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## **ANTH 480 Anthropology Seminar**

var-1-3sh

**Prerequisite:** 9sh in ANTH

A seminar approach to the integration of the fields of anthropology. Designed to assist the advanced student in understanding the nature of anthropology, the major theoretical issues, and the history of intellectual development.

## ANTH 481 Special Topics in Anthropology

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

## **ANTH 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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## **ANTH 483 Readings in Anthropology**

var-1-3sh

Directed readings on special topics in anthropology. Instructor guides selection of readings.

## **ANTH 493 Internship in Anthropology**

var-3-12sh

**Prerequisite:** Permission of the instructor

Designed to offer students practical experience in any of the specialized fields of anthropology (physical, social-cultural, archaeology, or linguistics). Each student develops objectives in consultation with a particular departmental faculty member who is supervising the internship. Detailed field notes and a major paper based on the experience are required.

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# **Applied Music**

## **Department of Music** College of Fine Arts

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

Music majors and others who may qualify take private instruction in their respective major areas of performance in instrument or voice for up to eight semesters. Half-hour lessons are given each week (2 sh) for students enrolled in the B.S. and B.A. degree programs. A one-hour lesson (4 sh) is scheduled by students enrolled in the B.F.A. degree program only.

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## **APMU 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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## **Art Education**

# **Department of Art College of Fine Arts**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

#### ARED 281 ARED 315 ARED 317 ARED 318 ARED 481 ARED 482

## **ARED 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

## **ARED 315 Survey of Art Education**

3c-01-3sh

A seminar to introduce the art education major to the principles and practices of teaching visual arts K through 12. Field experiences, pre-student teaching activities, introduction to literature, and history and philosophies of art education emphasized. (Prerequisite to student teaching) Fall only.

## ARED 317 Art Education Methodology at the Elementary Level

1c-31-3sh

Examines children's artistic development, art programs, planning, motivation, and evaluation. Weekly teaching experience is an integral part of the course. (Prerequisite to student teaching) Fall only.

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## ARED 318 Art Education Methodology at the Secondary Level

1c-31-3sh

The relationship of art education to the total secondary curriculum is studied to determine goals of junior-senior high school art. The adolescent creative products are analyzed to help the prospective art teacher to identify with problems of students. (Prerequisite to student teaching) Spring only.

## **ARED 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

## **ARED 482 Independent Study**

## var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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# **Art History**

## Department of Art College of Fine Arts

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

ARHI 101 ARHI 205 ARHI 206 ARHI 211 ARHI 222 ARHI 281 ARHI 300 ARHI 407 ARHI 408 ARHI 409 ARHI 412 ARHI 413 ARHI 416 ARHI 481 ARHI 482

#### **ARHI 101 Introduction to Art**

3c-01-3sh

Designed to introduce the student to the significance of art as related to contemporary living and our historical heritage.

## **ARHI 205 Ancient to Medieval Art**

3c-01-3sh

A study of art from prehistoric times to the Middle Ages. Humankind's artistic development is seen in relation to political, social, economic, and religious events.

#### ARHI 206 Renaissance to Baroque Art

3c-01-3sh

A study of art from the Renaissance to the Baroque in light of the historical events which affect humankind's artistic impulses and development.

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#### **ARHI 211 Modern Art**

3c-01-3sh

A survey of the revolutionary movements which began about 1850; concludes with trends in contemporary arts.

#### ARHI 222 Art in America

3c-01-3sh

Surveys American art and its relation to the development of American ideas and ideals.

## **ARHI 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

#### **ARHI 300 Native American Art**

3c-01-3sh

**Prerequisites:** ARHI 101, junior standing, or permission

A survey of the broad forms of visual arts and crafts that reflects the lifeways of Native Americans from paleo-indian origins to A.D. 1900.

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## **ARHI 407 Medieval Art**

3c-01-3sh

Art and architecture of Europe during the Middle Ages, beginning with early Christian and Byzantine and concluding with the Gothic period. Dual listed for graduate credit as ARHI 507.

#### **ARHI 408 Italian Renaissance Art**

3c-01-3sh

Italian art from 1400s through 1650 and Mannerist movement. Special attention paid to great masters of the period. Dual listed for graduate credit as ARHI 508.

#### **ARHI 409 Baroque and Rococo Art**

3c-01-3sh

A general survey of art from 1575 to 1775, will include architecture, sculpture, painting, and other arts. Dual listed for graduate credit as ARHI 509.

#### **ARHI 412 Classical Art**

3c-01-3sh

A historical survey of the architecture, painting, sculpture, and minor arts of the classical period of Greece and Rome, including the Minoan, Mycenaean, and Etruscan cultures.

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#### **ARHI 413 Senior Seminar**

3c-01-3sh

Intended to help students develop adequate vocabularies and methods to be used in discussion and criticism of works of art.

#### **ARHI 416 Northern Renaissance Art**

3c-01-3sh

Explores phenomena of art north of the Alps from 1400 to 1600, especially as it appears in the Lowlands, as well as side explorations into art of France, Germany, Austria, and the court at Prague.

## **ARHI 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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## **ARHI 482 Independent Study**

## var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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# Art (Studio)

## Department of Art College of Fine Arts

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

<u>ART 100 ART 111 ART 112 ART 113 ART 114 ART 120 ART 211 ART 213 ART 214 ART 215 ART 216 ART 217 ART 218 ART 219 ART 281 ART 421 ART 451 ART 452 ART 453 ART 454 ART 455 ART 457 ART 459 ART 460 ART 481 ART 482 ART 493</u>

## **ART 100 Arts of the Twentieth Century**

1c-31-3sh

Designed to expand student response to visual, aural, and kinetic art forms of this century with special emphasis on recent decades. Includes lecture, studio, and field experiences.

## **ART 111 Figure Drawing**

0c-6l-3sh

A foundation course in drawing, including a study of the structure of drawing and composition with a variety of media and subject matter.

## **ART 112 Fundamentals of Drawing**

0c-6l-3sh

Seeks to integrate basic principles and fundamentals of drawing and design.

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### **ART 113 Three-Dimension Design**

0c-6l-3sh

Basic elements and principles of design are studied. A course in design in three dimensions.

## **ART 114 Color and Two-Dimensional Design**

0c-6l-3sh

Focuses on the consistent properties of color and the manner in which two-dimensional design can be organized. Specific attention is given to the complex interactions of color within two-dimensional design.

#### **ART 120 Principles of Design**

0c-41-2sh

Principles of design and color are studied and applied to a crafted object. Major emphasis on aesthetic quality inherent in designing with materials.

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## **ART 211 Painting**

0c-6l-3sh

An introductory course in painting in which a variety of materials, techniques, and approaches are explored.

#### ART 213 Woodworking: Function and Form

0c-6l-3sh

Involves the study of woodworking and furniture design as it relates to the individual designer-artist. Students will experience a formal background in both woodworking technique and the application of design.

#### **ART 214 Ceramics**

0c-6l-3sh

A general introduction to the techniques and aesthetics of clay. The student will work both at the wheel and with hand building methods.

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#### **ART 215 Sculpture**

0c-6l-3sh

An introductory course in sculpture with emphasis on study of form as well as visualizing in the third dimension.

#### **ART 216 Basic Metals**

0c-6l-3sh

An introduction to metal work with emphasis upon creation of functional and nonfunctional art objects. Approached from the viewpoint of beginner learning basic processes of metal fabrication.

#### **ART 217 Printmaking**

0c-6l-3sh

An introduction to basic techniques of production of fine prints including work in relief, intaglio, lithograph, and serigraph processes.

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#### **ART 218 Graphic Design**

0c-6l-3sh

Students explore various techniques and their application to such commercial art projects as package design, trademark, and other design problems. Lettering is stressed, both instant type and hand lettering.

#### **ART 219 Fibers**

0c-6l-3sh

Provides students with introductory working knowledge in design and execution of projects in non 4/harness loom weaving and related fabric areas. Other fiber techniques, including handmade paper, available for students to explore as desired.

## **ART 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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### **ART 421 Advanced Drawing**

0c-6l-3sh

**Prerequisites:** ART 111 and 112

Designed to meet the needs of the student who has some background in the field. Problems of composition, two- and three-dimensional relationships, and surface are on an individual basis.

### **ART 451 Advanced Woodworking: Function and Form**

0c-6l-3sh

**Prerequisite:** ART 213

Offers advanced training and skills involving the study of contemporary furniture design and woodworking. Emphasis will be on a technical and aesthetic point of view.

## **ART 452 Advanced Ceramics**

0c-6l-3sh

**Prerequisite:** ART 214

Continued exploration of the field of ceramic production, along with kiln firing and glaze formulation.

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## **ART 453 Advanced Sculpture**

0c-6l-3sh

**Prerequisite:** ART 215

Gives the student an opportunity to pursue independent study in sculpture. Materials and processes will be individually chosen and the work related to broadening concepts.

## **ART 454 Advanced Painting**

0c-6l-3sh

**Prerequisite:** ART 211

Individual experimentation and exploration by the painter and investigation of the various technical approaches.

## **ART 455 Advanced Graphic Design**

0c-6l-3sh

**Prerequisite:** ART 218

Stresses advanced techniques in layout and illustration. The student explores ideas, such as creation of trademarks and how products are designed. Layouts are analyzed as to their quality. Package design is studied.

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## **ART 457 Advanced Printmaking**

0c-6l-3sh

**Prerequisite:** ART 217

Student elects to study one of the printmaking processes in greater depth and works toward development of own techniques, working processes, and ideas.

#### **ART 459 Advanced Fibers**

0c-6l-3sh

**Prerequisite:** ART 219

Provides student with a working knowledge in design and execution of projects in weaving and related areas. Other fiber techniques, including handmade paper, will be available for the students to explore as desired.

#### **ART 460 Advanced Metals**

0c-6l-3sh

**Prerequisite:** ART 216

Design and processes associated with art of metal are given greater concentration. The developing artist is encouraged to investigate, in depth, one or more of the metal arts as an extension of the basic course.

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## **ART 481 Special Topics**

var-1-3sh

May provide an in-depth study of a narrowly defined area of the discipline. Subject matter may change with repeated offering of the course. May be repeated for credit.

## **ART 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

## **ART 493 Internship**

var-3-12sh

Designed for art majors who wish to receive practical experience working within professional situations which relate to the student's artistic and occupational goals.

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# **Biochemistry**

### **Biochemistry Program**

**College of Natural Sciences and Mathematics** 

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

BIOC 301 BIOC 302 BIOC 311 BIOC 312 BIOC 480 BIOC 481 BIOC 482 BIOC 490

#### **BIOC 301 Biochemistry I**

3c-01-3sh

Prerequisites: BIOL 111 and CHEM 232

An introduction to biochemistry emphasizing the structure and function relationships of proteins, enzymes, and vitamins; bioenergetics; and the metabolism of carbohydrates and lipids.

## **BIOC 302 Biochemistry II**

3c-01-3sh

Prerequisite: **BIOC 301** 

A continuation of BIOC 301 concerning the metabolism of nitrogen, amino acids, nucleotides, and nucleic acids and the function of cell membranes, hormones, and specialized tissues.

## **BIOC 311 Biochemistry Laboratory I**

0c-4l-1sh

**Prerequisites:** BIOL 111 and CHEM 232

A companion to BIOC 301 including experiments in photometry, enzyme kinetics and purification, lipid isolation and characterization, electron transport in respiration and photosynthesis, and use of radioisotopes.

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## **BIOC 312 Biochemistry Laboratory II**

0c-4l-1sh

**Prerequisite: BIOC 311** 

A companion to BIOC 302 including experiments in membrane characterization, properties of amino acids, isolation and function of nucleic acids, and synthesis of proteins and nucleic acids.

## **BIOC 480 Biochemistry Seminar I**

1c-0l-1sh

Prerequisites: BIOC 302 and 312

A discussion of recent trends in biochemical thought. Oral and written reports on assigned readings, library or laboratory research. Guest lecturers. The combination BIOC 480 and 490 counts as one writing-intensive course.

## **BIOC 481 Special Topics in Biochemistry**

var-1-3sh

**Prerequisites:** BIOC 302 or CHEM 351

A lecture-discussion course of recent biochemical topics or those of unique interest. Topic and instructors to change annually.

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## **BIOC 482 Independent Research in Biochemistry**

var-1-3sh

**Prerequisites:** <u>BIOC 302</u> and <u>312</u>, permission by program coordinator

Student conducts a research project in any area of biochemistry. Work supervised by faculty. Does not involve regular class or lab hours. Enrollment by permission only.

## **BIOC 490 Biochemistry Seminar II**

1c-01-1sh

**Prerequisites:** <u>BIOC 302</u>, <u>312</u>, and <u>480</u>

A discussion of recent trends in biochemical thought. Oral and written reports on assigned readings, library or laboratory research. Guest lecturers. The combination BIOC 480 and 490 counts as one writing-intensive course.

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# **Biology**

### **Department of Biology**

**College of Natural Sciences and Mathematics** 

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

BIOL 103 BIOL 104 BIOL 105 BIOL 111 BIOL 112 BIOL 114 BIOL 115 BIOL 116 BIOL 150 BIOL 151 BIOL 155 BIOL 210 BIOL 220 BIOL 232 BIOL 241 BIOL 242 BIOL 250 BIOL 251 BIOL 252 BIOL 261 BIOL 262 BIOL 263 BIOL 269 BIOL 271 BIOL 272 BIOL 281 BIOL 310 BIOL 311 BIOL 321 BIOL 322 BIOL 331 BIOL 350 BIOL 352 BIOL 363 BIOL 363 BIOL 364 BIOL 401 BIOL 425 BIOL 450 BIOL 453 BIOL 463 BIOL 466 BIOL 475 BIOL 476 BIOL 478 BIOL 480 BIOL 481 BIOL 482 BIOL 493

#### **BIOL 103 General Biology I**

3c-2l-4sh

**Prerequisite:** Non-Biology majors only

A basic introduction to ecology, biochemistry, and cell biology, genetics, and evolution.

## **BIOL 104 General Biology II**

3c-21-4sh

Prerequisites: **BIOL 103**, non-Biology majors only

A basic introduction to plant and animal physiology, neurobiology, animal behavior, and plant and animal reproduction and development.

### **BIOL 105 Cell Biology**

3c-01-3sh

**Prerequisite:** Non-Biology majors only

An introductory course to provide concepts and applications for understanding human biological function from the point of view of cellular biology.

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## **BIOL 111 Principles of Biology I**

3c-31-4sh

**Prerequisite:** Must be taken after or concurrent with CHEM 111

Introduces the student to principles of biology, specifically in the topics of cell structure and function, genetics, and physiology. Develops skills in the use of the scientific method. Designed for biology majors.

## **BIOL 112 Principles of Biology II**

3c-31-4sh

**Prerequisite: BIOL** 111

Introduces the student to principles of biology, specifically in the topics of reproduction, development, evolution, ecology, and animal behavior. Develops skill in the use of the scientific method. Designed for biology majors.

#### **BIOL 114 Environmental Science**

3c-01-3sh

**Prerequisite:** Non-Biology majors only

An introduction to environmental science with an emphasis on human impacts. Uses an interdisciplinary approach to the consideration of population growth, pollution, preservation of species, and establishment of public policy. Students will learn basic principles in ecology as the basis for understanding problems of the environment.

## **BIOL 115 Biotic Diversity of North America**

3c-01-3sh

Prerequisites: Non-Biology majors and non-Biology minors only

An introduction to the biological diversity of North America from Barrow, Alaska, to Tehuantepec, Mexico. All major aquatic and terrestrial biomes occurring in North America will be examined with regard to plant forms, animal composition, and environmental (abiotic) conditions.

## **BIOL 116 Introduction to Marine Biology**

3c-01-3sh

Prerequisite: Non-Biology and non-Biology Education majors and non-Biology minors only

An introduction to the world of marine biology. Topics covered will include a discussion of the major groups of plants and animals found in the marine environment and a discussion of the major communities that make up the oceans of the world.

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## **BIOL 150 Human Anatomy**

2c-31-3sh

**Prerequisite:** Non-Biology majors only

A study of the functional systematic anatomy of the human. Lab studies center on nonhuman mammals whose anatomy is then related to the human condition.

#### **BIOL 151 Human Physiology**

3c-2l-4sh

**Prerequisites:** <u>BIOL 105</u>, non-Biology majors only

Deals with acquiring, through lecture presentations and laboratory experiments, an understanding of the basic functions and control of the major organ systems of the human body. Organ systems examined include the following: muscular system, cardiovascular system, respiratory system, endocrine system, renal system, digestive system, reproductive system, and nervous system.

#### **BIOL 155 Human Physiology and Anatomy**

3c-31-4sh

**Prerequisite:** Non-Biology majors only (Food and Nutrition, Dietetics, Family and Consumer Sciences Education, Physical Education, and Safety Sciences majors)

A study of structure and function of the human body. Emphasis is on normal function, with particular attention to functional anatomy, control mechanisms, and interrelationships among systems. Laboratory studies will include experimentation and dissection. For students with little or no science background.

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## **BIOL 210 Botany**

2c-31-3sh

**Prerequisite:** BIOL 111-112, or permission of instructor

A survey of the major plant groups, their physiology, structure, life cycles, evolution and ecology, and economic roles of plants. Combined lecture-laboratory.

#### **BIOL 220 General Zoology**

2c-3l-3sh

**Prerequisite:** BIOL 111-112 or permission of instructor

An examination of the evolution, form, and function of all major animal phyla, from sponges through chordates. Interactive lecture-laboratory sessions follow a phylogenetic approach to the Animal Kingdom and incorporate essentials of animal ecology, physiology, functional morphology, and behavior.

#### **BIOL 232 Fundamentals of Microbiology**

2c-31-3sh

**Prerequisites:** CHEM 101 or equivalent, non-Biology majors only (Food and Nutrition, Dietetics, Family and Consumer Sciences Education, and Hotel, Restaurant, and Institutional Management majors)

A study of microorganisms and the role they play in water, food disease, and infection. Food spoilage, poisoning, and disease are emphasized. General methods and techniques are emphasized in the laboratory.

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## **BIOL 241 General Microbiology**

2c-31-3sh

**Prerequisites:** Non-Biology majors only (Environmental Health, Nursing and Respiratory Therapy majors), <u>BIOL</u> 105, <u>CHEM 101</u>, or equivalent

A study of microorganisms and the role they play in water, soil, food, and infection. Microbes and disease will be emphasized. Standard methods and techniques are emphasized in laboratory.

## **BIOL 242 Comparative Vertebrate Anatomy**

2c-3l-3sh

**Prerequisites:** BIOL 220

An investigation of the comparative structure and function of the vertebrate body with emphasis on the diverse solutions to the problem of design for survival and the evolutionary mechanisms that provide those solutions. Meets twice per week for two and one-half hours. Each meeting will include both lecture and laboratory experiences. (Offered as BI 432 prior to 1999-2000)

## **BIOL 250 Principles of Microbiology**

2c-3l-3sh

**Prerequisite:** BIOL 111-112 or permission of instructor

A study of the structure, nutrition, and biochemical activities of microbes. A survey of viruses, blue-green bacteria, bacteria, algae, fungi, and protozoa and their diversity in natural environments. Course designed for biology and biology education majors.

## **BIOL 251 Field Botany**

2c-31-3sh

**Prerequisites: BIOL 210** 

The collection, preservation, identification, and distribution of selected herbaceous and woody plants of Western Pennsylvania. Emphasis will be on taxonomic principles, the use of keys and manuals, and the recognition of local flora.

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## **BIOL 252 Field Zoology**

2c-31-3sh

**Prerequisite: BIOL 220** 

Field natural history of vertebrates; identification, collection, and preservation techniques.

### **BIOL 261 Ornithology**

2c-31-3sh

## Prerequisites: BIOL 111-112 or BIOL 103-104

A study of birds of the region. Indoor laboratory as well as early morning and possibly weekend field trips required.

#### **BIOL 262 General Entomology**

2c-31-3sh

**Prerequisite: BIOL 220** 

Morphology, anatomy, ecology, taxonomy, and economic and public health importance of insect orders, particularly those of Western Pennsylvania; student collection and field trips required.

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#### **BIOL 263 Genetics**

2c-31-3sh

**Prerequisite: BIOL** 111

Deals with the distribution and function of the hereditary material; special emphasis on microbial, viral, and molecular genetics.

#### **BIOL 269 Bioethics and Coevolution**

3c-01-3sh

A discussion and exploration of the coevolution of humans and nature. Areas covered include the concepts of coevolution, bioethics, resource utilization, and possible future lifestyles. Designed for majors and nonmajors.

#### **BIOL 271 Evolution**

3c-01-3sh

**Prerequisite:** <u>BIOL 111-112</u> or <u>BIOL 103-104</u>, <u>BIOL 263</u>

Historical development of evolutionary thought; evidence and operational mechanisms involved; origin and phylogenetic relationships of biological groups.

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#### **BIOL 272 Conservation of Plant and Animal Resources**

2c-31-3sh

Prerequisites: BIOL 111-112 or BIOL 103-104

A study of accepted practices in soil, water, forest, and wildlife conservation. Saturday field trips.

## **BIOL 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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## **BIOL 310 Applied Entomology and Zoonoses**

2c-31-3sh

**Prerequisite:** BIOL 220 or permission

A study of the measures for abatement or control of arthropods, rodents, birds, and other disease vectors of public importance; selection, chemistry, formulation, and safe application of insecticides, rodenticides, and fumigants; pesticiding equipment; application of biological and other measures of control.

## **BIOL 311 Environmental Biology**

3c-31-4sh

**Prerequisites:** Restricted to Elementary Education and Earth Science Education majors only

A laboratory and field course providing basic knowledge in biology and its practical implications. Physical and biological aspects of the environment are studied.

#### **BIOL 321 Environmental Protection I**

2c-31-3sh

**Prerequisites:** <u>BIOL 111</u>- <u>112</u>, <u>CHEM 112</u>, Environmental Health majors only or permission of instructor Considers the impact of important components of the physical environment on health and deals with principles and methods for identification, evaluation, and control of such health hazards. Major attention to principles and methods of epidemiological investigation. Major credit only for Environmental Health majors.

## **BIOL 322 Environmental Protection II**

2c-3l-3sh

**Prerequisites:** <u>BIOL 111</u>- <u>112</u>, <u>CHEM 112</u>, Environmental Health majors only or permission of instructor Subjects receiving attention include water and food supplies, domestic and industrial sewage and wastes, housing, accidents, community air pollution, domestic and industrial poisons, ionizing radiations, occupational health hazards.

#### **BIOL 331 Animal Developmental Biology**

2c-31-3sh

**Prerequisite:** BIOL 220 or by permission

Comparative and molecular development of vertebrate animals are the major considerations. General principles of development are illustrated using vertebrate, invertebrate, and plant materials.

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## **BIOL 350 Cellular Physiology**

2c-31-3sh

Prerequisites: <u>BIOL 111</u>, <u>CHEM 231</u>

Topics include cell membrane systems, bioenergetics, and information processing systems as well as growth and differentiation of cells and their organelles. Complements plant and animal physiology and biochemistry.

## **BIOL 352 Comparative Animal Physiology**

2c-3l-3sh

Prerequisites: <u>BIOL 220</u>, <u>CHEM 231</u>

A comparative study of homeostatic mechanisms and systems in animals and their relation to fundamental chemical and physical events in cells.

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#### **BIOL 362 Ecology**

2c-31-3sh

Prerequisites: BIOL 111-112, BIOL 210 or BIOL 220

A study of interrelations and adaptations of organisms; includes consideration of physical and biotic environmental factors. Field trips.

#### **BIOL 363 Medical Microbiology**

2c-31-3sh

**Prerequisites:** <u>BIOL 250</u> or permission

A study of disease caused by microorganisms with emphasis on human pathogens. Both epidemiology and aspects of host-parasite relationships will be discussed. Lab stresses methods of isolation and identification of pathogens.

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## **BIOL 364 Immunology**

2c-31-3sh

**Prerequisites:** <u>BIOL 250</u>, <u>CHEM 232</u>, or by permission

Physical and chemical properties of antigens and antibodies; nature of antigen-antibody interactions; mechanism of antibody formation; and immune reaction and disease. Lab employs serological techniques.

## **BIOL 401 Laboratory Methods in Biology and Biotechnology**

2c-4l-3sh

Prerequisite: <u>CHEM 351</u>

Theory and practice in a number of major analytical and preparative techniques currently in use in physiology, molecular biology, and biotechnology.

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## **BIOL 425 Herpetology**

2c-31-3sh

**Prerequisite: BIOL 220** 

A comprehensive survey of the classes Amphibia and Reptilia, including their classification, structure, origin, evolution, phylogenetic relationships, distribution, and natural history. Special emphasis is placed on the herpetofauna of Pennsylvania.

## **BIOL 450 Pymatuning: Field Studies**

var-3sh

During the summer session, various field courses are offered through the Pymatuning Laboratory of Ecology. The offerings will vary depending on the summer. Some of the possible offerings include Experimental Design, Fish Ecology, Behavioral Ecology, Aquatic Botany, and Ecological Genetics. Information regarding specific offerings available from Biology Department in spring.

## **BIOL 453 Plant Physiology**

2c-31-3sh

Prerequisite: BIOL 210, CHEM 231

Studies physiological processes occurring in plants considered in relation to growth, development, and ecology of plants.

#### **BIOL 463 Limnology**

2c-31-3sh

Prerequisite: **BIOL 362** 

An investigation into the physical, chemical, and biological aspects of inland waters and their interrelationships. In the laboratory the student will gain experience in the techniques involved in aquatic sampling and the analysis of data. (Saturday or Sunday labs may be required.)

## **BIOL 466 Principles of Virology**

3c-01-3sh

**Prerequisite:** BIOL 263 or equivalent course in Genetics, or CHEM 351 or equivalent course in Biochemistry, or permission of instructor

Topics include structure, classification, assay, and transmission of viruses; methods used in the study of viruses; viral replication, gene expression, and gene regulation; host-viral interactions and subviral pathogens.

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#### **BIOL 475 Mammalogy**

2c-31-3sh

**Prerequisite: BIOL 220** 

A general discussion of mammals emphasizing systematics, distribution, and structural and functional modifications related to evolution of this group. Lab work samples numerous techniques that can be applied to mammalian biology.

## **BIOL 476 Parasitology**

2c-31-3sh

Prerequisite: **BIOL 220** 

Structure, physiology, ecology, life cycles, pathology, and treatment of parasitic protozoa and flatworm and roundworm species of man. Dissection of hosts for parasites.

#### **BIOL 478 Mycology**

2c-3l-3sh

**Prerequisite:** BIOL 210

Involves a study of the systemics, morphology, and physiology of the kingdom Myceteae with emphasis on economically important and experimentally useful organisms.

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#### **BIOL 480 Biology Seminar**

1c-0l-1sh

A discussion of recent trends in biological thought and research. Students report on assigned readings and/or personal research.

## **BIOL 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Course varies from semester to semester covering diverse topics in specific areas of biology.

## **BIOL 482 Independent Study**

var-1-3sh

**Prerequisites:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office. A 2.5 GPA overall and in major courses required.

Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources. Work is supervised by a faculty member but does not involve regular class or laboratory hours.

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## **BIOL 493 Biology Internship**

var-6-12sh

**Prerequisites:** Biology major with at least 57 semester hours, 2.5 overall QPA, and permission of the director of internships and the chairperson

Selected students have opportunity, under department supervision, to gain off-campus practical experience in area of interest. Only 6sh may be applied toward major; total number of semester hours will be decided in consultation involving student, his/her advisor, and director of internships.

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## **Business Education**

**Department of Technology Support and Training Eberly College of Business and Information Technology** 

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

BEDU 101 BEDU 111 BEDU 130 BEDU 132 BEDU 201 BEDU 250 BEDU 264 BEDU 273 BEDU 281 BEDU 311 BEDU 312 BEDU 481 BEDU 482

**Note:** All courses at the 300 and 400 level are open only to students with junior or senior standing. All students, regardless of major or program affiliation, must meet course prerequisite requirements in order to enroll for a given course. Business majors (except those majoring in Business Education) who have not achieved Junior Standing are normally not permitted to enroll in 300- or 400-level courses.

#### **BEDU 101 Microbased Computer Literacy**

3c-01-3sh

An introductory course designed to provide students with a fundamental understanding of computers. Familiarizes students with the interaction of computer hardware and software. Emphasis is placed on the application of microcomputers, the use of productivity software (word processing, spreadsheet management, file and database management), and the social and ethical aspects of the impact of computers on society.

Note: This course is cross-listed as <u>COSC 101</u> and <u>IFMG 101</u>. Any of these courses may be substituted for each other and may be used interchangeably for D or F repeats but may not be counted for duplicate credit.

#### **BEDU 111 Foundations of Business Mathematics**

3c-01-3sh

Develops an understanding of numbers and knowledge of fundamental concepts in arithmetic and algebra in the solution of common and advanced problems encountered in business by the businessperson and consumer. Topics illustrating and emphasizing the application of business mathematics include methods used to compute interest discount, partial payments, discounting of notes and drafts, depreciation, amortization, sinking fund redemptions, effective rate of interest, and preparation of statistical data.

## **BEDU 130 Keyboarding**

1c-0l-1sh

**Exception:** This course is open to students in all colleges without restriction.

Designed to provide students with the fundamental skills to keyboard information quickly and accurately in fourteen one-hour sessions. It is intended for the student who does not require the additional skills included in keyboarding and document formatting, such as letter formats, manuscript typing, and tabulation. Recommended for students in computer science, journalism, management information systems, criminology, etc. (Offered as BE134 prior to 1998-99)

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## **BEDU 132 Computer Keyboarding and Formatting**

3c-01-3sh

**Prerequisite:** BEDU 130 or successful completion of proficiency exam

Focuses on the development of correct techniques in keyboarding. Emphasis is on proofreading, formatting tabulations, business letters, business reports, business forms, rough drafts, and manuscripts; additional emphasis on production, accuracy, and speed.

#### **BEDU 201 Internet and Multimedia**

3c-01-3sh

**Prerequisite:** BEDU 101/COMM 101/COSC 101/IFMG 101 or prior exposure to word processing and electronic mail The major focus will be on the evaluation of information and multimedia resources available on electronic networks when doing research in an area of one's choice. This information literacy course is designed for students to gain a more in-depth understanding of the information resources available electronically and of how to utilize them more effectively in communicating. Students will learn how to access and utilize these resources for two-way communications and support for decision making while incorporating selected elements in multimedia presentations of their own design. (BEDU 201/COMM 201/COSC 201/IFMG 201/LIBR 201 may be used interchangeably for D or F repeats and may not be counted for duplicate credit.)

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#### **BEDU 250 Electronic Office Procedures**

3c-01-3sh

**Prerequisite:** <u>BEDU 131</u> or equivalent

A study of the theory and practice of the systems in an electronic office: records management, office environment, communication transmittal systems, reprographics, and office procedures.

#### **BEDU 264 Office Procedures**

3c-01-3sh

**Prerequisite:** BEDU 131 or equivalent

An advanced study of theory and practice in activities common to office records management; handling of mail; telephone and telegraph services; receiving callers; writing reports; dictation and transcription equipment; bank, financial, and legal transactions; shipping and receiving services; reference books; etc.

#### **BEDU 273 Word Processing Applications**

3c-01-3sh

**Prerequisite:** BEDU 131 or equivalent

Students will develop a high degree of proficiency in the use of word processors. Emphasis is on machine operations and production skills in formatting, text editing, and understanding word processing concepts. May not be used as a substitute for BEDU/COSC/IFMG 101.

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#### **BEDU 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

## BEDU 311 Methods and Evaluation in Business and Marketing Education I

3c-01-3sh

**Prerequisites:** <u>PSYC 101</u>, <u>EDSP 202</u>, and completion of the freshman and sophomore courses in the student's major areas

Includes general methods of teaching and evaluation plus methods and evaluation in basic business courses. Unit plans, lesson plans, and unit tests are emphasized. Techniques and procedures of teaching and classroom management are studied. Includes units in vocational education such as advisory committees, adult education, and federal legislation for funding.

## BEDU 312 Methods and Evaluation in Business and Marketing Education II

var-1-3sh

Prerequisite: <u>BEDU 311</u>, <u>EDSP 202</u>

Emphasis is placed on the development of methods and strategies for making effective classroom presentations and working with students in both the skill and cognitive areas. Students will be provided opportunities to undertake the many responsibilities assigned to the business classroom teacher.

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#### **BEDU 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

## **BEDU 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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## **Business Law**

## Department of Finance and Legal Studies Eberly College of Business and Information Technology

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

## BLAW 235 BLAW 281 BLAW 336 BLAW 337 BLAW 382 BLAW 383 BLAW 440 BLAW 481 BLAW 482

Note: All courses at the 300 and 400 level are open only to students with junior or senior standing. All students, regardless of major or program affiliation, must meet course prerequisite requirements in order to enroll for a given course. Business majors (except those majoring in Business Education) who have not achieved Junior Standing are normally not permitted to enroll in 300- or 400-level courses.

### **BLAW 235 Introduction to Business Law**

3c-01-3sh

An introduction to legal systems, torts, contracts, and sales law.

## **BLAW 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

## **BLAW 336 Law of Business Organizations**

3c-01-3sh

Prerequisite: **BLAW 235** 

A study of the law dealing with commercial paper, agency, partnerships, corporations, and bankruptcy.

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#### **BLAW 337 Consumer Law**

3c-01-3sh

Nature of law as it pertains to the consumer. Attention to consumer protection relationships; real and personal property; credit; environmental law; law pertaining to employment; landlord-tenant relationships; product liability; insurance; and family law.

#### **BLAW 382 Real Estate Fundamentals**

3c-01-3sh

Designed to acquaint the student with the language, principles, and laws that govern the business of real estate. Emphasis will be on the underlying concepts of land, property, rights in realty, and the means, methods, and laws that govern the conveyance of these rights. Required course for taking the Pennsylvania Real Estate Sales Exam.

#### **BLAW 383 Real Estate Practice**

3c-01-3sh

Prerequisite: **BLAW** 382

One of the two courses required by the Pennsylvania Real Estate Commission in order to take the Pennsylvania Real Estate Sales Licensing Exam. Topics include real estate brokerage, the real estate market, listing contracts, the Pennsylvania Real Estate Licensing and Registration Act and its rules and regulations, appraisal, property management, fair housing laws, ethical practices for real estate professionals, and real estate math.

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## **BLAW 440 Business Negotiations**

3c-01-3sh

**Prerequisites:** BLAW 235, junior standing

Open to all majors meeting the prerequisites. Covers the basic theories and strategies of negotiation in the business environment and provides instruction and practice to develop negotiation skills. Focuses on the knowledge and skills needed in intercompany and intracompany negotiations. Focuses on neither collective bargaining nor labor negotiations.

## **BLAW 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

## **BLAW 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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# Chemistry

# **Department of Chemistry College of Natural Sciences and Mathematics**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

CHEM 101 CHEM 102 CHEM 111 CHEM 112 CHEM 113 CHEM 114 CHEM 116 CHEM 231 CHEM 232 CHEM 255 CHEM 281 CHEM 301 CHEM 321 CHEM 322 CHEM 323 CHEM 331 CHEM 335 CHEM 340 CHEM 341 CHEM 342 CHEM 343 CHEM 344 CHEM 351 CHEM 410 CHEM 411 CHEM 412 CHEM 421 CHEM 441 CHEM 481 CHEM 482 CHEM 493 CHEM 498

## CHEM 101 College Chemistry I

3c-21-4sh

Basic principles and concepts of inorganic chemistry are developed from the standpoint of atomic and molecular structure with illustrative examples from descriptive chemistry. The laboratory portion of the course illustrates physical and chemical properties in a qualitative and quantitative manner. Designed for selected majors within the College of Health and Human Services and to fulfill the Liberal Studies Natural Science Laboratory Sequence requirement.

#### CHEM 102 College Chemistry II

3c-21-4sh

**Prerequisite: CHEM 101** 

Basic fundamental principles and concepts of organic and biochemistry are developed. Deals primarily with structural features of organic compounds, the chemistry of functional groups, and practical examples and uses of organic compounds. The laboratory portion illustrates properties and reactions of representative organic compounds. Designed for selected majors within the College of Health and Human Services and to fulfill the Liberal Studies Natural Science Laboratory Sequence requirement.

## **CHEM 111 General Chemistry I**

3c-31-4sh

A lecture-discussion of principles of chemistry, including theory and applications. The lab illustrates principles discussed. Topics discussed include scientific measurements, simple definitions and concepts, the mole, stoichiometry, gas laws, electronic structure of the atom, bonding, thermochemistry, and descriptive chemistry of the elements.

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#### **CHEM 112 General Chemistry II**

3c-31-4sh

**Prerequisite:** CHEM 111

A continuation of General Chemistry I. Topics discussed include the solid and liquid state, solutions, kinetics, equilibria, acids and bases, solubility equilibria, thermodynamics, electrochemistry, and descriptive chemistry of the elements.

## **CHEM 113 Concepts in Chemistry**

3c-31-4sh

An introductory course for chemistry majors. Topics covered include atomic theory, an introduction to chemical

reactions, stoichiometry, thermochemistry, chemical bonding, molecular geometry, kinetic-molecular theory of gases, the liquid and the solid states, and solution theory.

## **CHEM 114 Basic Inorganic Chemistry**

3c-31-4sh

**Prerequisite:** CHEM 113

Topics include chemical kinetics, equilibrium and thermodynamics, acids and bases, electrochemistry, coordination chemistry, and descriptive chemistry of selected elements.

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#### **CHEM 116 Basic Inorganic Chemistry**

3c-31-2sh

Prerequisite: CHEM 111 and 112

Required for chemistry majors who have taken CHEM 111 and 112. A systematic study of the chemistry of the elements will be presented in both the lecture and the laboratory. Also included will be the chemistry of coordination compounds. This course starts at the beginning of the second half of the spring semester and is taught concurrently with CHEM 114.

## **CHEM 231 Organic Chemistry I**

3c-4l-4sh

**Prerequisite:** CHEM 112 or 114

A study of compounds of carbon, with special emphasis on structure-reactivity relationships. Laboratory work emphasizes methods of separation and purification of organic compounds.

## **CHEM 232 Organic Chemistry II**

3c-4l-4sh

**Prerequisite:** CHEM 231

A continuation of Organic Chemistry I with an introduction to spectroscopic techniques. Laboratory work emphasizes the synthesis of representative compounds.

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#### **CHEM 255 Biochemistry and Nutrition**

3c-01-3sh

**Prerequisite:** CHEM 102

For Family and Consumer Sciences Education majors; studies chemistry and biological function of biologically active compounds with respect to nutritional requirements.

#### CHEM 281 Special Topics

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

## **CHEM 301 Chemistry Seminar**

1c-0l-1sh

A discussion of current technical literature and current research problems of staff. Lectures by outside chemists and student presentations. Open to junior or senior chemistry majors and to others by permission of the chairperson.

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## **CHEM 321 Quantitative Analysis**

3c-4l-4sh

**Prerequisite:** CHEM 112 or 114

Theory and practice of quantitative analysis, including gravimetric and volumetric analysis; special emphasis on perfecting student's laboratory techniques and application of general chemical knowledge through problem solving.

#### **CHEM 322 Instrumental Analysis**

3c-4l-4sh

**Prerequisite:** CHEM 341

Modern instrumental methods of chemical analysis. Student learns theory behind the instrument, principles of operation, interpretation of data obtained, and limitations of methods.

## **CHEM 323 Analytical Methods**

3c-4l-4sh

**Prerequisites:** CHEM 112 and non-Chemistry major

Principles of precipitation, acid-base, oxidation-reduction, and equilibria are applied to problem solving and to laboratory determinations; instrumental methods of analysis, such as colorimetry, atomic absorption and flame emission, gas chromatography, etc.

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### CHEM 331 Organic Molecular Structure Determination

4c-var-3sh

**Prerequisites:** CHEM 231-232 (CHEM 232 may be taken concurrently)

Gives the student experience in systematic identification of various classes of organic compounds by both chemical and physical methods.

## **CHEM 335 Advanced Organic Chemistry**

3c-01-3sh

Prerequisites: CHEM 232 and 341

Selected topics of current interest covered. Possible topics include reaction mechanisms, molecular spectroscopy, stereochemistry, natural products, heterocyclics, polymer chemistry, and organic synthesis.

### CHEM 340 Physical Chemistry for the Biological Sciences

3c-01-3sh

**Prerequisites:** MATH 122 or 124 or 128, and PY112 or 132; CHEM 232

A one-semester course for Biochemistry and Biology majors. Chemical thermodynamics, equilibria, kinetics; quantum mechanics; and spectroscopy especially as applied to biomechanical systems.

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## **CHEM 341 Physical Chemistry I**

4c-01-4sh

**Prerequisites:** MATH 122 or 124 or 128, and PY112 or 132; CHEM 112 or 114

Chemical thermodynamics with applications to solutions, phase, and chemical equilibria-kinetic theory.

#### **CHEM 342 Physical Chemistry II**

3c-01-3sh

Prerequisite: <u>CHEM 341</u>

A study of solids, liquids, surfaces, chemical kinetics, electrochemistry, atomic and molecular structure.

#### CHEM 343 Physical Chemistry Laboratory I

0c-3l-1sh

Prerequisites: CHEM 321, 341

Experiments illustrating application of fundamental laws to actual systems. Carries writing-intensive credit.

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## CHEM 344 Physical Chemistry Laboratory II

0c-31-1sh

Prerequisites: <u>CHEM 342</u>, <u>343</u>

An extension of Physical Chemistry Laboratory I; experiments related to chemical kinetics, molecular spectroscopy, and other topics of physical chemistry.

#### **CHEM 351 Biochemistry**

4c-01-4sh

**Prerequisite:** CHEM 231

A study of chemistry and biological functions of carbohydrates, lipids, proteins, minerals, vitamins, and hormones.

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## **CHEM 410 Advanced Inorganic Chemistry Laboratory**

0c-31-1sh

**Prerequisite:** CHEM 322

A laboratory course in which the techniques used in the synthesis and characterization of inorganic compounds will be explored. Emphasis will be placed on the preparation of a wide variety of inorganic compounds and the methods by which they are identified and characterized.

## **CHEM 411 Advanced Inorganic Chemistry**

3c-01-3sh

**Prerequisite:** CHEM 341

Gives understanding of advanced theories of atomic structure, chemical bonding, acids and bases, coordination compounds, and selected topics.

## CHEM 412 Advanced Structural and Synthetic Methods in Inorganic Chemistry

2c-2l-3sh

**Prerequisites:** CHEM 411 and either CHEM 410 or 322

Advanced techniques used in the synthesis and characterization of inorganic compounds will be explored. In lecture, emphasis will be placed on the theory and application of structural and spectroscopic methods of characterization. In lab, emphasis will be placed on advanced methods of synthesis and structural characterization using representative examples of important classes of inorganic compounds.

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### **CHEM 421 Advanced Instrumental Analysis**

4c-var-3sh

**Prerequisite:** CHEM 322

A study of modern chemical analysis, using advanced instrumental techniques; emphasis on theory, principles of operation, capabilities, and limitations of advanced analytical instruments used.

#### **CHEM 441 Advanced Physical Chemistry**

3c-01-3sh

Prerequisite or corequisite: CHEM 342

A study of fundamental ideas of quantum and statistical mechanics, molecular structure, and other topics of current interest.

#### CHEM 481 Special Topics

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the

established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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## CHEM 482 Independent Study

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

## **CHEM 493 Internship in Chemistry**

var-4-9sh

Prerequisites: CHEM 113, 114, 231, 232, 321, 341, and departmental approval

Full-time involvement in an actual "on-the-job" situation in an industrial or research laboratory under the tutelage of a selected preceptor. A department faculty member will work closely with the student and preceptor and will assume responsibility for making the final evaluation and assigning a grade.

## **CHEM 498 Problems in Chemistry**

var-1-2sh

**Prerequisite:** Permission of chairperson

A course of independent study on selected problems, including lab work, library reading, and conferences with staff member. A minimum of 4 hours per week required per credit.

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## **Communications Media**

## **Department of Communications Media College of Education**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

COMM 101 COMM 150 COMM 201 COMM 205 COMM 230 COMM 240 COMM 249 COMM 251 COMM 271 COMM 281 COMM 301 COMM 302 COMM 303 COMM 305 COMM 307 COM

## **COMM 101 Communications Media in American Society**

3c-01-3sh

Required of Communications Media majors

An introduction to the evolution, status, and future of communications media. Students explore intrapersonal communication through self-assessment, values clarification, and feedback; interpersonal communication through interviews, observations, case studies, and gaming; and mass communications through the examination of the processes and the technology utilized to disseminate and manage information. Career paths, field applications, professional associations, and the primary literature are investigated. (Previous title: Survey of Communications Media)

## **COMM 150 Aesthetics and Theory of Communications Media**

3c-01-3sh

Prerequisite: **COMM** 101

Examines the theoretical assumptions of sight, sound, and motion as applied to the design of communication products for different media formats. Within the course, strategies for creative composition are demonstrated. Psychological and physiological implications of images are discussed. (Offered as CM200 Images prior to 1999-2000)

## **COMM 201 Internet and Multimedia**

3c-01-3sh

**Prerequisite:** BEDU 101/COMM 101/COSC 101/IFMG 101 or prior exposure to word processing and electronic mail The major focus will be on the evaluation of information and multimedia resources available on electronic networks when doing research in an area of one's choice. This information literacy course is designed for students to gain a more in-depth understanding of the information resources available electronically and of how to utilize them more effectively in communicating. Students will learn how to access and utilize these resources for two-way communications and support for decision making while incorporating selected elements in multimedia presentations of their own design. (BEDU 201/COMM 201/COSC 201/IFMG 201/LIBR 201 may be used interchangeably for D or F repeats and may not be counted for duplicate credit.)

#### **COMM 205 Media Presentation Skills**

3c-01-3sh

**Prerequisites:** COMM 150, CM majors only

Introduces students to basic presentation skills, emphasizing the use of media to enhance presentations. Students will

research, organize, and write presentations, design appropriate media, and deliver presentations in various settings, including to large groups, on camera and in groups with other students.

## **COMM 230 Issues in International Communication**

3c-01-3sh

A survey of international communications with particular emphasis on communications flow, four-press theories, ownership, structure and access to media, government/media relationships, and the impact of communications on developed and developing countries.

## **COMM 240 Communications Graphics**

3c-01-3sh

**Prerequisites:** COMM 101 or permission

An introduction to graphic design concepts and related processes and techniques for a variety of forms of presentation media including television, multimedia, and on-line communications for educational, corporate training, and communications specialists. Both two- and three-dimensional design, and basic animation concepts will be explored. Hands-on experiences using a variety of graphic software applications. (Offered as CM440 prior to 1999-2000)

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#### **COMM 249 Basic Audio Recording Techniques**

3c-01-3sh

**Prerequisite:** COMM 101 or permission

Theory and practice of recording sound, developing an understanding of the language of sound recording as well as the ability to make sound recordings. Offers exposure to recording for various media including radio, music, motion pictures, television, and multimedia production. Material also appropriate for teachers who wish to make use of tape recorder in the classroom. Students will gain hands-on experience through labs and projects to be completed outside of class. Students will be expected to provide an audio tape recorder. (Offered as CM449 prior to 1999-2000)

#### **COMM 251 Television Production**

3c-01-3sh

**Prerequisite:** COMM 101 or permission

Develops basic skills in television production and direction. Consideration of operating problems of a television studio, as well as functions, limitations, and capabilities of television equipment and facilities. (Offered as CM451 prior to 1999-2000)

## **COMM 271 Beginning Photography**

3c-01-3sh

**Prerequisite:** COMM 101 or permission

Working with black-and-white materials, the student learns to operate a camera, develop film, make contact prints and enlargements, and mount prints for display. Ancillary topics are introduced such as filtration, print spotting, flash, and the use of accessory lenses. Student is required to have a 35mm camera, preferably a single-lens reflex, with fully manual focusing and exposure capability.

## **COMM 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

## **COMM 301 Technology for Learning and Instruction**

3c-01-3sh

**Prerequisite:** EDSP 202 or permission

Preservice teachers gain competencies in selection, evaluation, and utilization of various instructional technologies. Application of new technologies to teaching and learning will be emphasized, along with performance-based activities in instructional design. A major portion of the course is devoted to the integration of computer-based instructional activities in the school curriculum. Does not count towards semester hours needed for Communications Media major.

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#### **COMM 302 Research in Communications Media**

3c-01-3sh

**Prerequisite:** COMM 150, ENGL 101 and ENGL 202 (C or better)

Designed to provide knowledge of the resource materials and research strategies used in the communications media field. Students will design basic data gathering instruments, collect data, and assimilate information from various sources and data into communication products, services, or documents.

## **COMM 303 Scriptwriting**

3c-01-3sh

Prerequisite: COMM 101, ENGL 101 and ENGL 202 (C or better) or permission of instructor

An introduction to the design of media materials and script writing. Style and techniques of writing will be analyzed. Classroom emphasis is on writing, critiques, and revision of designs and scripts. Scripts for audio, multimedia presentations, and motion picture and television productions will be written.

## **COMM 305 Electronic Media Programming and Sales**

3c-01-3sh

**Prerequisite:** COMM 150

Explores two primary functions of the electronic media: providing programming for audiences and providing economic viability to media outlets by selling commercial time to clients. Students will explore topics such as program development, scheduling, and promotion. Also explores the basic strategies used in the electronic media to sell commercial time and the use of audience and ratings analysis in the processes of programming and sales.

## **COMM 330 Instructional Design for Training and Development**

3c-01-3sh

Prerequisites: COMM 101, 240, ENGL 101 and ENGL 202 (C or better) or permission

Examines the systems approach for the design, development, and evaluation of instructional material. Students will learn about the history of instructional design and development and the current status of the field. Each student will produce a self-instructional prototype that will require the student to systematically and creatively apply the concepts and rules learned in the class. (Previous title: Communications Media in Training and Education)

## **COMM 335 Communications Consulting and Project Management**

3c-01-3sh

**Prerequisite:** COMM 101

Presents the theoretical views and clinical applications of consulting skills and practices associated with and needed by communication professionals. Presented will be the functions and role of the consultant, the client's perspective on consulting, hiring a consultant, ethics in consulting, personal assessment tests, and related literature and models.

#### **COMM 340 Advanced Communication Graphics**

3c-01-3sh

**Prerequisite:** COMM 240, permission

Provides in-depth experience in planning and preparing graphic materials commonly used in the communications profession; graphic materials include design, photosketching, lettering, slide titling and duplication, preparation of camera-ready art, lithographic film and master layout sheets, professional slide flat production and photocopy, large-format transparency production, color key, and color systems. (Offered as CM441 prior to 1999-2000)

## **COMM 345 Television Criticism**

3c-01-3sh

**Prerequisite:** COMM 150 or permission of instructor

The medium of television offers a unique environment for development and delivery of information, entertainment, and news. Explores and analyzes television programming. Includes examination of genres ranging from situation comedy to drama, to mini-series and made-for-TV movies.

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#### **COMM 349 Radio Production**

3c-01-3sh

**Prerequisite:** COMM 150 or permission of instructor

An introduction to production techniques as they pertain to radio. The student will be exposed to programming, scripting, producing programs, intros, outros, commercials, public service announcements, station identifications, and promotional announcements. Also deals with the interaction of a radio station with national networks and with the real-life concerns of deadlines. (Offered as CM405 prior to 1999-2000)

#### **COMM 351 Advanced Video Production**

3c-01-3sh

**Prerequisite:** : COMM 251 and COMM 303 or COMM 403

A production course that emphasizes advanced field production techniques. Some of the topics covered will include field lighting, video post-production editing with A-B roll, on-line editing, and nonlinear editing. Students will gain hands-on experience through projects and field trips.

#### **COMM 354 Broadcast Regulation**

3c-01-3sh

**Prerequisite:** COMM 150 or permission of instructor

Delves into the areas of law affecting broadcasters. Topics covered are laws pertaining to cable television, station licensing and renewal, political broadcasting, libel, copyright, the right of reply, and privacy. The historical development of the FCC and its jurisdictions will also be examined. Case studies will be discussed along with the relevancy of some laws as they pertain to today's society. (Offered as CM454 prior to 1999-2000)

## **COMM 371 Consulting Practices in Communications**

3c-01-3sh

**Prerequisites:** COMM 271, permission

Students will develop camera and print-making skills to the degree that they can produce salon-quality photographic prints. Students will understand the photographic processes utilized in producing a high-quality negative and print to the extent that they can manipulate those processes to communicate an intended message with their photographs. Emphasis will be on camera and print control as well as composition and negative and print manipulation. (Offered as CM472 prior to 1999-2000)

#### **COMM 375 Mass Media and Behavior**

3c-01-3sh

**Prerequisites:** PSYC 101 and junior or senior status

Theory and research on the influence of the mass media on human behavior and attitudes. Topics include the effects of news and political advertising on public opinion; the effects of racist and sexist portrayals; and the effects of violence and pornography on aggressive behavior. (Also offered as <u>PSYC 375</u>; may be taken only once)

## COMM 380 The History of African Americans in Film

3c-01-3sh

Traces the historical development of the roles of African Americans in film and television. Students examine the early stereotypic portrayals of this group, the origins of these stereotypes, and the ongoing changes, positive and negative, that have occurred regarding the media representation through research, film, and archetypal analysis, observation, and discussion. The new generation of African American filmmakers and their creative efforts to promote more realistic portrayals are analyzed.

#### **COMM 390 Practicum in Communications**

var-1-3sh

**Prerequisites:** COMM 101, written permission

An opportunity with credit for students to make contributions to department and campus media-related facilities and offices including WIUP-TV, WIUP-FM, *Penn*, Public Relations, and Media Resources. Repeatable for a maximum of 6sh.

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#### **COMM 395 Career Planning in Communications Media**

1c-0l-1sh

**Prerequisite:** Minimum 20 COMM semester hours

Serves as a primary skill-building and strategy-seeking experience for the internship program and later career entry and growth. Extensive writing, research, and individual counseling are involved. Travel may be necessary.

#### **COMM 403 Broadcast Newswriting**

3c-01-3sh

**Prerequisites:** COMM 101, 240, ENGL 101 and ENGL 202 (C or better) or permission of instructor Acquaints students with the various styles and script formats used in writing news scripts for radio and television. Includes instruction in writing news stories for radio and television and an introduction to broadcast news production. Students will practice and work to improve writing skills in this area of broadcast writing.

#### **COMM 408 Media Field Studies**

3c-01-3sh

**Prerequisites:** COMM 101, junior standing, and permission of instructor

A hands-on course designed to help the students learn about the production process involving on-location production. Will have three distinct phases: students will begin with research and pre-production tasks on campus; students may travel to a remote site to collect additional information and images and use those images to complete a production; and students will be responsible for travel expenses. (Offered as CM 401 prior to 2000-2001)

#### **COMM 440 Multimedia Production**

3c-0l-3sh

**Prerequisites:** COMM 240 or permission of the instructor

The student will learn the processes and techniques of planning, designing, and producing used with interactive multimedia. Provides hands-on experiences in the use of graphics, audio, animation, video, and authoring software applications to produce an aesthetically acceptable product that meets specific objectives. Designed to meet the needs of educational media, corporate training, and communications specialists.

#### **COMM 445 Applications and Techniques of Motion Pictures**

3c-01-3sh

**Prerequisites:** COMM 150 or permission of instructor

A survey of the role that motion picture film production plays in society. Major emphasis will be placed on the variety of applications with special consideration given to motion pictures as a tool to support research.

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#### **COMM 449 Advanced Audio Recording Techniques**

3c-01-3sh

Prerequisites: **COMM 249**, permission

Sound recording utilizing advanced techniques and concentrating on specific applications. Student participates in an intensive lab experience utilizing the most advanced equipment available. Emphasis will be on application, editing, signal processing, and multi-track recording. Student is expected to produce a sound recording for a specific use of professional quality. (Offered as CM450 prior to 1999-2000)

#### **COMM 451 Broadcast News Process**

3c-01-3sh

**Prerequisites:** COMM 251, COMM 349, permission

Reporting and presenting radio and TV news programs. Analysis of news and public affairs broadcasting. (Offered as

CM453 prior to 1999-2000)

#### COMM 460 Emerging Trends in Communication Technology

3c-01-3sh

**Prerequisites:** COMM 150

An introduction to the ever-changing world of telecommunication technologies, focusing on modern, computer-driven modes of information exchange. Students will get an opportunity to synthesize several of the technologies covered in the course and integrate them into a workable solution to a practical telecommunication problem. (Previous title: Alternative Systems of Communications)

#### **COMM 470 Management Practices in Electronic Communications**

3c-01-3sh

Prerequisites: COMM 150, any COMM Writing Intensive course, and junior or senior standing

Presents the theory and practice of media management. Areas covered will include problem-solving, documenting and reporting, career systems, budgeting, personnel, ownership, unionization, market analysis, and special topics as directly related to communications media industries. Students will conduct case study research related to their career direction.

#### **COMM 471 Electronic Imaging**

3c-01-3sh

**Prerequisites:** COMM 271 or permission

An introduction to the use of electronic still photography (ESP) for the capture, recording, and transfer of still images and the use of computers for the storage, manipulation, and output of color and black and white photography. Extensive training in the use of software packages for image enhancement, restoration, and manipulation will be provided. Students will learn the applications of this technology to the print media and will examine the ethical and legal issues of image manipulation. (Offered as CM479 prior to 1999-2000)

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#### **COMM 475 Senior Portfolio Presentation**

3c-01-3sh

**Prerequisites:** Communications Media majors only, 24 COMM credits and COMM 395

Students will compile and present a series of works produced through previous Communications Media courses and activities. The result will be a portfolio suitable for presentation to a potential employer. The portfolio may include examples of student works from a variety of subject areas.

#### **COMM 480 Seminar in Communications Media**

3c-01-3sh

**Prerequisites:** COMM 302, junior or senior standing, other prerequisites as appropriate to course content A seminar in selected communications issues or problems. Includes the reading and review of the current literature as appropriate to the major topic presented in the seminar. Students will be involved in the research and oral defense of a major research paper.

### **COMM 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

#### **COMM 493 Internship**

var-6, 9, 12sh

#### Prerequisites: **COMM 395**, department approval

Supervised professional summer work experience in communications media. Sites reflect the academic goals of the department and are approved and administered by a department coordinator. Location, duties, length of internship, and hours are individually tailored to student career goals. Sites represent wide application of process and technology of communications in business, education, allied health, or other agencies. Students must complete 40 hours of the internship work experience per semester hour earned. A maximum of 15sh is applicable to an undergraduate degree program from any combination of internship and practicum experience.

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# **Computer Science**

**Department of Computer Science College of Natural Sciences and Mathematics** 

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

COSC 101 COSC 105 COSC 110 COSC 201 COSC 205 COSC 220 COSC 250 COSC 281 COSC 300 COSC 304 COSC 310 COSC 315 COSC 319 COSC 320 COSC 345 COSC 352 COSC 354 COSC 355 COSC 360 COSC 362 COSC 380 COSC 405 COSC 410 COSC 419 COSC 420 COSC 424 COSC 430 COSC 432 COSC 441 COSC 444 COSC 450 COSC 451 COSC 460 COSC 480 COSC 481 COSC 482 COSC 485 COSC 493

### **COSC 101 Microbased Computer Literacy**

3c-01-3sh

An introductory course designed to provide students with a fundamental understanding of computers. Familiarizes students with the interaction of computer hardware and software. Emphasis is placed on the application of microcomputers, the use of productivity software (word processing, spreadsheet management, file and database management), and the social and ethical aspects of the impact of computers on society. (Does not count toward Computer Science major.)

**Note:** This course is cross-listed as <u>BEDU 101</u> and <u>IFMG 101</u>. Any of these courses may be substituted for each other and may be used interchangeably for D or F repeats but may not be counted for duplicate credit.

#### **COSC 105 Fundamentals of Computer Science**

3c-01-3sh

The first course for Computer Science majors. Required of all Computer Science students and appropriate for other Natural Sciences and Mathematics students. Topics include the fundamental concepts of computer architecture, algorithm development and analysis, programming languages, software engineering, data organization and representation, and systems software. Hands-on introduction to computer usage with an emphasis on terminology and the underlying connections within the discipline.

#### **COSC 110 Problem Solving and Structured Programming**

3c-01-3sh

(For Science, Mathematics, and Computer Science majors, and for others who have a sufficiently quantitative orientation)

Basic structure of modern digital computers; problem analysis and computer solution using flowcharting and the C++ language. Exemption or credit by examination possible.

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#### **COSC 201 Internet and Multimedia**

3c-01-3sh

**Prerequisite:** BEDU 101/COSC 101/IFMG 101 or prior exposure to word processing and electronic mail. The major focus will be on the evaluation of information and multimedia resources available on electronic networks when doing research in an area of one's choice. This information literacy course is designed for students to gain a more in-depth understanding of the information resources available electronically and of how to utilize them more

effectively in communicating. Students will learn how to access and utilize these resources for two-way communications and support for decision making while incorporating selected elements in multimedia presentations of their own design. (BEDU 201/COMM 201/COSC 201/IFMG 201/LIBR 201 may be used interchangeably for D or F repeats and may not be counted for duplicate credit.)

#### **COSC 205 Programming Languages for Secondary Education**

3c-01-3sh

**Prerequisite:** Education major

Provides an introduction to the three high-level programming languages most commonly used in secondary education: Pascal, LOGO, and BASIC, with particular emphasis on Pascal. Also includes a comparative study of the control structures and data structures present in these three languages. Intended to establish a solid foundation to prepare prospective teachers of computing courses K-12. (Note: Previous experience with microcomputers is strongly recommended. Does not count toward a Computer Science major. Credit toward graduation will not be given if this course is taken after completing 6sh or more of COSC courses.)

#### **COSC 220 Applied Computer Programming**

3c-01-3sh

**Prerequisite:** COSC 110 or equivalent

Structured programming principles and techniques, as implemented through the ANS COBOL language; program design using top-down techniques; program and project documentation; introduction to sequential file algorithms.

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#### **COSC 250 Introduction to Numerical Methods**

3c-01-3sh

Prerequisites: COSC 110, MATH 122 or 123 or 127

Algorithmic methods for function evaluation, roots of equations, solutions to systems of linear equations, interpolation, curve fitting, numerical differentiation and integration; errors in computation. Introduction to FORTRAN90 programming and introduction to the use of a mathematical software package to graph functions.

#### **COSC 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

#### **COSC 300 Assembly Language Programming**

3c-01-3sh

**Prerequisite:** COSC 110 or equivalent

An examination of structure and languages of machines; representation of data, addressing techniques, symbolic coding, assemblers, macros, etc.; problem solution using assembly language

#### **COSC 304 Interactive Internet Programming with Java**

3c-01-3sh

**Prerequisite:** COSC 110 or equivalent

An introduction to interactive Internet programming using Java. The focus is on writing platform-independent multimedia applications that are useable across the Internet. Uses a write-once, run-anywhere approach while providing adequate security. Covers event-based processing, multithreading, MIME file handling, exception handling, sandbox security, networking, and component architectures.

#### **COSC 310 Data Structures**

3c-01-3sh

Prerequisite: COSC 110

Basic concepts of data; storage systems and structures; lists, arrays, strings, hashing techniques; searching and sorting techniques; data structures in programming languages; string processing. Programming in an object-oriented language.

#### **COSC 315 Large File Organization and Access**

3c-01-3sh

**Prerequisite:** COSC 220

The organization of large computer files for business systems, information systems, and other applications. Use of advanced COBOL for efficient file access. Evaluation of file access methods and directory organization. Introduction to random file algorithms and integrated file systems.

#### **COSC 319 Software Engineering Concepts**

3c-01-3sh

**Prerequisite:** COSC 315 or permission of instructor

Includes the collection of tools, procedures, methodologies, and accumulated knowledge about the development of the software life cycle; current methodologies, tools, and techniques being applied to each phase will be discussed in depth with localized exercises given to reinforce learning of concepts.

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#### **COSC 320 Software Engineering Practice**

1c-2d-3sh

**Prerequisite:** COSC 319 or permission of instructor

Planning, design, and implementation of large software systems using software engineering techniques. Students work in project teams on real or realistic software development projects. Credit for either COSC 320 or 493 may count toward computer science major requirements for graduation but not both; the other course semester hours are free electives.

#### **COSC 345 Data Communications**

3c-01-3sh

Prerequisites: COSC 110 or 220; MATH 121 or 123; MA214 or 216 or 217; or equivalents

Communication of digital data between computers and to and from terminals and other peripherals; computer networks; small design projects or term paper.

#### **COSC 352 LAN Design and Installation**

3c-01-3sh

**Prerequisite:** IFMG 350 or OSYS 313 or any COSC course numbered 300 or higher

A study of fundamental local area networking concepts. Detailed study of the basics of local area network (LAN) technology. Comparative study of commercially available LAN systems and products. Features a hands-on laboratory implementation of a LAN. Cross-listed as IFMG 352. Either course may be substituted for the other for D/F repeats but may not be taken for duplicate credit.

#### **COSC 354 Testing and Controlling LANs**

3c-01-3sh

Prerequisite: COSC 352 or IFMG 352 or equivalent

Explores local area network (LAN) topologies and their associated protocols. Introduces ways of interconnecting, securing, and maintaining LANs. Provides students with hands-on experience in the interconnection of multiple LANs. Also presents a hands-on approach to design, testing, and administration of interconnected LANs. Cross-listed as IFMG 354. Either course may be substituted for the other for D/F repeats but may not be taken for duplicate credit.

#### **COSC 355 Computer Graphics**

2c-11-3sh

**Prerequisites:** COSC 310 and junior status

The use of computer graphics hardware and software. An overview of current applications and experience with representative software will introduce current practice. Foundations in primitives, geometry, and algorithms of passive computer graphics are the principal focus of the course. A brief introduction to interactive computer graphics will be included.

#### **COSC 360 IBM Job Control Language**

1c-0l-1sh

**Prerequisite:** COSC 220 or permission of instructor

Detailed study of the job control language (JCRLG) of the IBM OS operating system; comparison of OS with the locally available DEC operating system, VAX VMS.

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#### **COSC 362 UNIX Systems**

3c-01-3sh

**Prerequisite:** COSC 310 or permission of instructor

An introduction to the features, syntax, applications, and history of UNIX. Coverage includes utilities, system administration, development environments, and networking concerns including distributed systems, client-server computing, and providing Web services.

#### **COSC 380 Seminar on the Computer Profession**

0c-1d-1sh

**Prerequisite:** Permission (See text below)

Reading, review, and discussion of the current literature of computer science and industry trade journals; effective oral presentations; employment prospects. Should be taken the semester before an internship or the first semester of the senior year. Should not be taken at the same time as COSC 480.

#### **COSC 405 Artificial Intelligence**

3c-01-3sh

**Prerequisite:** COSC 310

An introduction to the field of artificial intelligence, i.e., the study of ideas that enable computers to process data in a more intelligent way than conventional practice allows. Covers many information representation and information processing techniques. Students will explore the underlying theory including matching, goal reduction, constraint exploration, search, control, problem solving, and logic.

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#### **COSC 410 Processor Architecture and Microprogramming**

3c-01-3sh

Prerequisites: COSC 300 and 310

The logical description of computer processor structure (architecture), with emphasis on the microprogramming approach. Project assignments using minicomputer.

#### **COSC 419 Software Development with Ada**

3c-01-3sh

Prerequisite: COSC 310

An introduction to the Ada programming language as a tool of the software engineer. Projects will use the advanced programming constructs resident in Ada, including packages, multi-tasking, generic units, exception handlers, and concurrent programming.

#### **COSC 420 Modern Programming Languages**

3c-01-3sh

Prerequisites: COSC 220 and 310

A comparative study of the properties and applications of a range of modern higher-level programming languages,

including Ada, APL, C, LISP, LOGO, Pascal, PROLOG, and SNOBOL. Comparison with older languages such as ALGOL, BASIC, COBOL, FORTRAN, and PL/I.

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#### **COSC 424 Compiler Construction**

3c-01-3sh

Prerequisites: COSC 300 and 310

Relates the formal concepts of automata and language theory to the practicality of constructing a high-level language translator. The structures and techniques used in lexical analysis, parsing, syntax directed translation, intermediate and object code generation, and optimization are emphasized.

#### COSC 430 Introduction to Systems Programming

3c-01-3sh

Prerequisites: COSC 300 and 310

Concepts and techniques of systems programming with an emphasis on assembly, linking, loading, and macro processing for user programs. Overview of higher-level language translation and system control. Programming and research projects.

#### **COSC 432 Introduction to Operating Systems**

3c-01-3sh

**Prerequisites:** COSC 300, COSC 310 or equivalents

An introduction to the principles of operating system design and implementation. Topics include interrupt service, process states and transitions, spooling, management of memory and disk space, virtual storage, scheduling processes and devices, and file systems.

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#### **COSC 441 Data Base Management**

3c-01-3sh

Prerequisite: COSC 315

A review of database concepts. Detailed study of database management approaches. Comparative study of commercially available database management systems. Project on the locally available database systems.

#### **COSC 444 Productivity Tools and Fourth Generation Language**

3c-01-3sh

Prerequisite: COSC 441 or IFMG 450

Develop an understanding of productivity issues and how Fourth Generation Languages (4GL) improve productivity as contrasted with 3GLs. Advances in the programming paradigm such as event-driven programming, objects, reusability, graphical user interface (GUI) design and development, information systems based on relational databases, and client/server technology are addressed. Students will gain a practical experience with these concepts through an in-depth study of Visual Basic and the development of a GUI interface to a relational database using Visual Basic.

#### **COSC 450 Applied Numerical Methods**

3c-01-3sh

**Prerequisites:** COSC 250, MATH 241, or equivalents

Polynomial approximations using finite differences, with applications in numerical integration and differentiation. Numerical solution of initial value ordinary differential equations. The APL language will be introduced and used, along with FORTRAN, in programming selected algorithms.

#### **COSC 451 Numerical Methods for Supercomputers**

3c-01-3sh

**Prerequisites:** MATH 121 and 122, or MATH 123 or 127, MATH 171, COSC 250

Supercomputers make use of special computer architectures—vector and parallel processors—in order to achieve the fastest processing speed currently available. Students will be introduced to these features and will learn how numerical

algorithms can be constructed to exploit supercomputers' capabilities. Students will gain practical experience in programming for the Cray, YMP, in incorporating existing scientific software packages into user-written programs, in submitting remote jobs to the Pittsburgh Supercomputer Center, and in producing animated graphical output to summarize the typically large volume of output data generated by large scientific programs. (Also offered as MATH 451; may not be taken for duplicate credit)

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#### **COSC 460 Theory of Computation**

3c-01-3sh

**Prerequisites:** COSC 310 or consent of instructor

Formal methods for describing and analyzing programming languages and algorithms. Backus-Naur forms; productions; regular expressions; introduction to automata theory; Turing machines; recent concepts in algorithm theory computability.

#### **COSC 480 Seminar on Technical Topics**

0c-11-1sh

**Prerequisites:** See text below

Reading, review, and discussion of the current literature of computer science and industry professional and technical journals; oral presentations. Should be taken the last semester of the senior year. Should not be taken at the same time as COSC 380.

#### **COSC 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

A seminar in advanced topics of computer science; content will vary depending on interests of instructor and students. May be repeated for additional credit. Special Topics numbered 481 are primarily for upper-level undergraduate students.

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#### **COSC 482 Independent Study**

var-1-4sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval based on academic appropriateness and availability of resources.

#### **COSC 485 Independent Study**

var-12sh

**Prerequisites:** Permission of a computer science faculty member who agrees to supervise the student's project. Arrangements for selection of a specific topic must be made.

#### **COSC 493 Internship in Computer Science**

var-12sh

**Prerequisites:** COSC 300, 310, 315, 319, 380, other courses depending on type of internship position desired, completion of application, and selection by committee

Positions with participating companies provide students with paid experience in computer science under the supervision of the companies and faculty. Requirements include three on-site consultations, two university consultations, completion of progress reports, oral presentation, and a final cumulative paper. Offered only to students during the second semester and summer of the junior year or the summer and the first semester of the senior year. No more than 4sh of COSC 493 may be applied toward the semester-hour requirements for the major in Computer Science.

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## **Consumer Services**

#### Department of Human Development and Environmental Studies College of Health and Human Services

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

<u>CNSV 101 CNSV 281 CNSV 315 CNSV 413 CNSV 416 CNSV 421 CNSV 433 CNSV 481 CNSV 482 CNSV 493</u>

#### **CNSV 101 Personal and Family Management**

3c-01-3sh

Management as a system and its relationship to individuals and families. Formulation of goals, values, and standards; use of decision-making process; utilization of resources.

#### **CNSV 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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#### **CNSV 315 Consumer Economics and Family Finance**

3c-01-3sh

Economic, sociological, and psychological principles are applied to family money management problems. Information needed to manage finances effectively and to become a rational consumer is presented.

#### **CNSV 413 Problems in Consumer Economics**

3c-01-3sh

**Prerequisite:** CNSV 315 or Economics

Problems of consumer-seller relationships studied with emphasis given to effects of current economic and social forces. Governmental and private protection agencies which aid the consumer are reviewed. Individual investigations required. Fall semester only.

#### **CNSV 416 Problems in Family Finance**

3c-01-3sh

**Prerequisite:** CNSV 315

In-depth theories and principles in personal and family finance and the rights and responsibilities of consumers are emphasized. Opportunities are provided for students to explore specific areas of interest. Spring semester only.

#### **CNSV 421 Senior Seminar**

2c-01-2sh

**Prerequisites:** Completion of 90sh

Knowledge gained in major and outside concentration courses is applied to individual career goals. Students have the

opportunity to pursue related areas not directly covered in previous coursework, with emphasis upon independent research, analytical thinking, and communications skills.

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#### **CNSV 433 Study Tour**

var-1-6sh

**Prerequisite:** Upper-level standing

An opportunity is provided to visit business establishments and cultural centers concerned with household equipment, furnishings, textiles, clothing, and housing in America as well as abroad. Museums, factories, designers' showrooms, distribution centers, stores, cultural events, and seminars are included. May be repeated for a total of 6sh. (Cross-listed as FSMR/INDS 433.)

#### **CNSV 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

#### **CNSV 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Particular consumer considerations are independently investigated in the area of housing, home equipment, interior design, clothing, and textiles or in the management of resources. Course may be repeated for a total of 3sh. Students meet with a faculty member at least 5 hours per semester hour.

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#### **CNSV 493 Internship**

var-1-12sh

**Prerequisites:** Approval of instructor and department chairperson; upper-level standing

A practical experience related to the student's major area of study with objectives, supervised experience, and evaluation. Course may be repeated for a total of 12sh.

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# **Counseling and Student Development**

# **Counseling and Student Development Center Student Affairs Division**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

#### **CNSD 150**

#### CNSD 150 Life Skills: Improving your Social and Emotional Intelligence

1c -01-1-sh

Prerequisite: Permission of instructor

Provides students with practical, hands-on cognitive, emotional, and interpersonal skills which will help them to increase their abilities to process and respond to environmental demands and stresses of their social and academic environment. These skills include mindfulness, emotion regulation, behavior management, and handling relationships by understanding emotions in others. The goals will be to understand basic principles of emotion regulation and interpersonal effectiveness, improve students' ability to focus, and attend to one's own thoughts and feelings as they apply to the skills described above.

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## **Counselor Education**

#### Department of Counseling, Adult Education, and Student Affairs College of Education and Educational Technology

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

#### COUN 250 COUN 253 COUN 281 COUN 481 COUN 482

#### **COUN 250 Developing Interpersonal Relationship Skills**

1c-0l-1sh

Teaches interpersonal relationship skills: listening, communicating, group dynamics, decision making, leadership, assertiveness, time-use management, problem solving, and conflict resolution. Restricted to residence hall counselors.

#### **COUN 253 Counseling in School Settings**

3c-01-3sh

An elective course designed to provide in-service teachers and school personnel, other than counselors, with a basic understanding of the knowledge, information, and skills appropriate to counseling with individuals and groups. Restricted to peer tutors.

#### **COUN 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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#### **COUN 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

#### **COUN 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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# Criminology

# **Department of Criminology College of Humanities and Social Sciences**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

CRIM 101 CRIM 102 CRIM 210 CRIM 260 CRIM 270 CRIM 281 CRIM 283 CRIM 291 CRIM 295 CRIM 300 CRIM 306 CRIM 355 CRIM 357 CRIM 361 CRIM 370 CRIM 371 CRIM 383 CRIM 386 CRIM 388 CRIM 390 CRIM 391 CRIM 400 CRIM 401 CRIM 416 CRIM 451 CRIM 470 CRIM 480 CRIM 481 CRIM 482 CRIM 491 CRIM 493

#### **CRIM 101 Crime and Justice Systems**

3c-01-3sh

Introduces the field of criminology through the examination of historical data, statistical information, theories of criminal causation, social control of behavior, development of laws, evaluation of criminal justice system policies, procedures, and trends. Students will learn the terminology of the field, gain an awareness of the methods of inquiry utilized in the field, and have the opportunity to examine personal attitudes and values regarding crime and responses to crime.

#### **CRIM 102 Survey of Criminology**

3c-01-3sh

Provides an understanding of the discipline of criminology through an examination of its theories, basic assumptions, and definitions.

#### **CRIM 210 Criminal Law**

3c-01-3sh

A study of the history and sources of criminal law coupled with an analysis of the substantive elements of specific crimes.

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#### **CRIM 260 Criminal Procedure and Admissibility of Evidence**

3c-01-3sh

Law of arrest, search, and seizure, with discussion of important case law. Analysis of safeguards established for protection of individual liberties.

#### **CRIM 270 Juvenile Justice System**

3c-01-3sh

A study of the agencies and processes dealing with juvenile justice in the United States.

### **CRIM 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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#### **CRIM 283 Police Patrol Administration**

3c-01-3sh

The study of the role and characteristics of the police patrol function. Special emphasis is given to understanding how patrol relates to other police functions and its effect on crime.

#### **CRIM 291 Theory and Techniques of Interviewing**

3c-01-3sh

Consideration of the theory, nature, methods, and principles of interviewing.

#### **CRIM 295 Criminal Investigation**

3c-01-3sh

The study of logical and scientific principles necessary for the detection and investigation analysis of criminal activities. Theories of information, interrogation, observation and interrogation, and observation and ethics are among the topics to be discussed.

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#### **CRIM 300 Theory of Complex Criminal Justice Organizations**

3c-01-3sh

**Prerequisite:** CRIM 102 or permission of instructor

The study of the evolution and theories of organizational alternatives and their application to the administration of justice.

#### **CRIM 306 Criminological Research Methods**

3c-01-3sh

**Prerequisite:** CRIM 102 or permission of instructor

An introduction to the basic criminological research methods designed to prepare the student to understand and participate in quantitative and qualitative research.

#### **CRIM 355 Crime in the Workplace**

3c-01-3sh

The study of the theoretical and legal basis of crime in the workplace.

#### CRIM 357 Law, Social Control, and Society

3c-01-3sh

The evolution and development of the modern legal system. Topics include civil, criminal, and administration law, the legal profession, legal systems in American society, and the law as one of many instruments of social control and social change.

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#### **CRIM 361 Juvenile Law**

3c-01-3sh

An analysis of pertinent juvenile law and procedure involving case study methods.

#### **CRIM 370 Correctional Institutions**

3c-01-3sh

An examination of the organization and function of correctional institutions. Emphasis is placed on various social processes and problems associated with incarceration.

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#### **CRIM 371 Community-Based Corrections**

3c-01-3sh

A survey of noninstitutional programs, focusing on alternatives to incarceration in community settings. Programs reviewed include prerelease, probation, parole, halfway houses, and restitution-based programs.

#### **CRIM 383 Police Administration**

3c-01-3sh

A study of police management, structure, and operations and their roles in the quality of services delivered. The relationship between police administration and its social environment will be examined.

#### **CRIM 386 Correctional Administration**

3c-01-3sh

A study of correctional management, structures, and operations and their roles in the quality of services delivered. The relationship between correctional administration and its social environment.

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#### **CRIM 388 Court Administration**

3c-01-3sh

A study of court responsibility within the criminal and civil justice systems; jurisdictions, policies, and management procedures in court administration.

#### **CRIM 390 Women and Crime**

3c-01-3sh

A study of the nature and extent of women's crime, theories of female criminality, processing of women offenders through the criminal justice system, the response of police and court officials to women as victims of crime, and opportunities for women as employees in criminal justice agencies.

#### **CRIM 391 Substance Use and Abuse in Criminal Justice**

3c-01-3sh

A study of substance use and abuse confronting American society. Alcohol and drug use and abuse education, philosophy, physiological effects, and social aspects will be examined in terms of control measures and public safety.

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#### **CRIM 400 Theoretical Criminology**

3c-0l-3sh

A review and critical analysis of the major criminological theories beginning with the Classical School; psychological, sociological, economic, biological, and political theories of crime and its causes will be included.

#### **CRIM 401 Contemporary Issues in Criminology**

3c-01-3sh

An examination of the nature and extent of crime in modern Western society. Emphasis will be placed on issues

selected from, but not limited to, emerging patterns of violence, organized crime, white collar crime, victimless crime, corruption, and those crime control strategies deemed appropriate in a democracy.

#### **CRIM 416 Criminal Justice Personnel and Supervision**

3c-01-3sh

A study of public personnel systems with specific application to criminal justice agencies. The role and function of supervision as a concept of a comprehensive personnel system as well as the relationship between agency personnel and the impact on crime will be examined.

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#### CRIM 451 Etiology of Delinquent Behavior

3c-01-3sh

An analysis of the prevalent theories of delinquency causation with a view toward developing prevention, control, and treatment approaches.

#### **CRIM 470 Comparative Study of Justice**

3c-01-3sh

Comparison of American systems of administration of justice with those of other nations.

### CRIM 480 Seminar in Criminology - The Administration of Justice

3c-01-3sh

A study of selected topics in criminology—the administration of justice. May be taken more than once for a maximum of 6sh. Not for credit after prior CRIM 480.

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#### **CRIM 481 Special Topics in Criminology**

var-1-3sh

**Prerequisite:** Department consent

A seminar providing study of selected topics not emphasized in other courses. May be taken more than once to a maximum 6sh.

#### **CRIM 482 Independent Study in Criminology**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

#### **CRIM 491 Individual and Group Treatment Modalities**

3c-01-3sh

A study of the therapeutic techniques, process, and application used in various criminal justice environments.

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#### **CRIM 493 Internship**

var-3-12sh

A structured field placement designed to broaden the student's educational experience through observation and participation in work assignments in government or private sectors. 6sh of credit can be applied to the major requirements.

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# **Critical Languages**

#### **College of Humanities and Social Sciences**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

#### CRLG 101-120 CRLG 151-170 CRLG 201-220 CRLG 251-270

Critical Languages are offered in four levels. See program description in the opening section of the College of Humanities and Social Sciences. Specific languages are offered as available.

#### CRLG 101 - 120 Critical Languages I

3c-01-3sh

Basic vocabulary and pronunciation in the target language. Oral/aural skills are stressed.

CRLG 110 Modern Greek I CRLG 111 Portuguese I CRLG 112 Russian I CRLG 113 Swedish I CRLG 114 Hebrew I	CRLG 106 Hungarian I CRLG 108 Japanese I CRLG 109 Korean I CRLG 110 Modern Greek	CRLG 104 Finnish I CRLG 105 Hindi I	CRLG 101 Arabic I CRLG 102 Chinese I CRLG 103 Dutch I	CRLG CRLG CRLG CRLG CRLG CRLG CRLG CRLG	102 103 104 105 106 108 109 110 111 112 113	Chinese I Dutch I Finnish I Hindi I Hungarian I Japanese I Korean I Modern Greek Portuguese I Russian I Swedish I
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#### CRLG 151 - 170 Critical Languages II

3c-01-3sh

**Prerequisite:** Level I or acceptable equivalent

A continuation of the first-semester course. Depending on the language being studied, reading and writing may be introduced at this level.

```
CRLG 151
CRLG 152
               Arabic II
               Chinese II
CRLG 153
               Dutch II
CRLG 154
CRLG 155
               Finnish II
               Hindi II
CRLG 156
               Hungarian II
CRLG 158
               Japanese II
CRLG 159
CRLG 160
               Korean II
               Modern Greek II
CRLG 161
               Portuguese II
CRLG 162
CRLG 163
               Russian II
               Swedish II
CRLG 164
               Hebrew II
CRLG 165
               Swahili II
```

#### CRLG 201 - 220 Critical Languages III

3c-01-3sh

#### **Prerequisite:** Level II or acceptable equivalent

At this first intermediate level, students will begin to develop a degree of oral proficiency that will vary with the language studied. Reading and writing will be studied in all languages by this level.

201	Arabic III
202	Chinese III
203	Dutch III
204	Finnish III
205	Hindi III
206	Hungarian III
208	Japanese III
209	Korean III
210	Modern Greek III
211	Portuguese III
212	Russian III
213	Swedish III
214	Hebrew III
215	Swahili III
	205 206 208 209 210 211 212 213

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#### CRLG 251 - 270 Critical Languages IV

3c-01-3sh

#### **Prerequisite:** Level III or acceptable equivalent

By the end of this course the student should be able to communicate in simple terms with an educated native speaker on a topic with which the student is familiar. Ability in reading and writing will vary with language.

```
CRLG 251
CRLG 252
               Arabic IV
               Chinese IV
CRLG 253
               Dutch IV
CRLG 254
CRLG 255
               Finnish IV
               Hindi IV
               Hungarian IV
CRLG 256
CRLG 258
               Japanese IV
CRLG 259
               Korean IV
CRLG 260
              Modern Greek IV
CRLG 261
               Portuguese IV
CRLG 262
               Russian IV
CRLG 263
               Swedish IV
CRLG 264
               Hebrew IV
               Swahili IV
CRLG 265
```

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## **Distributive Education**

**Department of Technology Support and Training Eberly College of Business and Information Technology** 

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

#### <u>DEDU 281 DEDU 331 DEDU 413 DEDU 481 DEDU 482</u>

**Note:** All courses at the 300 and 400 level are open only to students with junior or senior standing. All students, regardless of major or program affiliation, must meet course prerequisite requirements in order to enroll for a given course.

#### **DEDU 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

#### **DEDU 331 Modern Merchandising**

3c-01-3sh

Techniques for planning and controlling inventory, analyzing sales, working with modern systems for handling cash, and using color, line, and design. Practice in preparing merchandise display units.

#### **DEDU 413 Methods and Evaluation in Distributive Education II**

3c-01-3sh

Prerequisites: BEDU 111, MKTG 320, DEDU 333, and EDSP 202

Includes two sections of special methods and evaluation in this field. Objectives are to acquaint students with the basic principles of group and individual instruction in various subject matter areas, as well as methods of presentation. Unit plans, lesson plans, demonstrations, and evaluations will be prepared. Students select sections needed for certification.

#### **DEDU 481 Special Topics**

3c-01-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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#### **DEDU 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in

conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# **Early Childhood Education**

Professional Studies in Education College of Education and Educational Technology

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

#### ECED 200 ECED 220 ECED 281 ECED 310 ECED 311 ECED 312 ECED 315 ECED 451 ECED 481 ECED 482

**Note:** Courses in Early Childhood Education are restricted to majors with a 2.5 average, except by department permission.

#### **ECED 200 Introduction to Early Childhood Education**

3c-01-3sh

An introductory course for prospective teachers of young children. Provides students with the opportunity to gain knowledge of historical, sociological, and political aspects of early childhood education. Emphasis will be on systematically observing, recording, and evaluating children's behavior in classrooms.

### ECED 220 Language Development and Children's Literature

3c-01-3sh

Includes the study of children's language acquisition and children's literature within the context of a developmentally appropriate language arts curriculum, preschool through the primary grades. Strategies for developing children's linguistic competence and integrating literature throughout the early childhood program will be emphasized. Observations, interviews, and teaching experiences are an integral part of the course. (Offered as a writing-intensive course.)

#### **ECED 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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#### **ECED 310 Integrated Curriculum I**

3c-01-3sh

Examines the sequence of cognitive development in children and the implications for instructional programs. Stages of cognitive understanding will be applied to the basic components of numerical concepts and science concepts. Classroom management strategies that can be utilized in varied environments will be stressed.

#### **ECED 311 Integrated Curriculum II**

3c-01-3sh

Enables students to realize the importance and relevance of content area subjects as related to the early childhood

years. Planning for teaching with specific emphasis on methods and materials for social and environmental living is introduced. The integration of music and art is emphasized. Values systems and self-esteem are integral to social living.

#### **ECED 312 Aesthetic Experiences for Young Children**

3c-01-3sh

An interdisciplinary approach to different forms of creative expression in young children. Art, music, and movement will be analyzed as aesthetic elements in a comprehensive early childhood curriculum. Development of creative potential in both teachers and children will be promoted as a means of enhancing the artist's experiences. Students will expand their use of the arts to enhance the self-esteem and self-worth of the children.

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#### **ECED 315 Development and Learning Through Play**

3c-01-3sh

Provides early childhood educators with the knowledge and skills necessary to promote and guide children's play behavior as the child's basic learning mechanism. Emphasis will be on definitions, theories, and stages of play within the context of social, emotional, physical, and intellectual growth for children aged 0-8 years. Students will observe children at play, design specific learning activities that utilize a play/games format, and direct educational experiences during a supervised field component.

#### **ECED 451 Teaching Primary Reading**

3c-01-3sh

A methods course designed to assist students in developing the reading abilities of young children. Deals with instructional issues related to teaching reading and introduces students to varying reading and pre-reading processes which are effective with young children. Also emphasizes diagnostic and assessment strategies for teaching reading.

#### **ECED 481 Special Topics**

var-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office A course/seminar on topics in education appropriate for the Early Childhood Education setting

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#### **ECED 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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## **Economics**

# **Department of Economics College of Humanities and Social Sciences**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

ECON 101 ECON 121 ECON 122 ECON 241 ECON 281 ECON 283 ECON 325 ECON 326 ECON 330 ECON 331 ECON 332 ECON 333 ECON 334 ECON 335 ECON 336 ECON 339 ECON 345 ECON 345 ECON 346 ECON 350 ECON 351 ECON 355 ECON 356 ECON 360 ECON 371 ECON 372 ECON 373 ECON 383 ECON 421 ECON 422 ECON 480 ECON 481 ECON 482 ECON 493

#### **ECON 101 Basic Economics**

3c-01-3sh

Scarcity, role of prices in determining production and the allocation of resources, business cycle analysis, policy options for reducing unemployment and inflation, economic role of government, international trade, and selected current economic problems are studied. For those who do not plan to take more than 3sh of economics. Note: May not be taken after successful completion of or concurrent registration in any other Economics course.

### **ECON 121 Principles of Economics I**

3c-01-3sh

Nature and methodology of economics; mixed capitalism and market economy; national income; employment theory, including economics of fiscal policy; money, banking, and Federal Reserve System; international trade and finance.

#### **ECON 122 Principles of Economics II**

3c-01-3sh

Economics of the firm; theory of consumer demand; determination of price and output in different market structures; distribution of income; economic growth.

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#### **ECON 241 Contemporary Economic Issues**

3c-01-3sh

Prerequisite: ECON 101 or 122

A rigorous but nontechnical analysis of a variety of economic problems and a formulation and evaluation of possible corrective policies.

#### **ECON 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

#### **ECON 283 Environmental Economics**

3c-01-3sh

**Prerequisite:** ECON 101 or 122

An examination of economic costs and benefits of environmental control and modification. Techniques of economic analysis are used to understand economic aspects of environmental problems and contribute toward their solution.

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#### **ECON 325 Monetary Economics I**

3c-01-3sh

Prerequisites: ECON 121, 122

Organization, operation, and economic significance of U.S. monetary institutions; commercial banks and Federal Reserve System; survey of monetary theory and policy; mechanism of international payments.

#### **ECON 326 Monetary Economics II**

3c-01-3sh

Prerequisite: ECON 325 or permission of the instructor

Detailed study of monetary theory; tasks of central banking; principal objectives of monetary policy; intensive study of recent monetary experience; complementary and competing aims of monetary and fiscal policy.

#### **ECON 330 Labor Economics**

3c-01-3sh

Prerequisites: ECON 121, 122

History, structure, and operation of trade unions and employer organizations; major federal labor legislation; collective bargaining theory; wage determination; current labor problems.

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#### **ECON 331 Economic Organization of Industry**

3c-01-3sh

**Prerequisite:** ECON 122 or permission of the instructor

Social effectiveness of industries analyzed through measures of market structure, market conduct, and market performance.

#### **ECON 332 Government and Business**

3c-01-3sh

**Prerequisite:** ECON 122 or permission of the instructor

An analysis of the antitrust laws focusing on the maintenance of competition, the prohibition of unfair business conduct, and the achievement of desirable economic performance.

### **ECON 333 Regulation of Industry**

3c-01-3sh

Prerequisites: ECON 121, 122 or permission of the instructor

Examines the theory and practice of regulation, emphasizing effects of regulation on economic performance and efficiency in the U.S.

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#### **ECON 334 Economics of Corporate Decisions**

3c-01-3sh

Prerequisites: ECON 121, ECON 122, MATH 121 or equivalent

Applications of economic theory using algebra, elementary statistics, and calculus to solve managerial optimization problems including problems of forecasting and risk.

#### **ECON 335 Public Finance**

3c-01-3sh

**Prerequisites:** ECON 121, 122 or permission of the instructor

Taxation and expenditure theory at the federal level; federal budget and debt considerations; public sector impact upon economy.

#### **ECON 336 State and Local Finance**

3c-01-3sh

**Prerequisite:** ECON 122 or permission of the instructor

An analysis of character and impact of state and local government revenue sources, expenditures, and fiscal systems; intergovernmental fiscal relations.

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#### **ECON 339 Economic Development I**

3c-01-3sh

Prerequisites: ECON 121, 122

Theory of growth; theory of economic development of underdeveloped countries.

#### **ECON 343 History of the Economic Development of the United States**

3c-01-3sh

Prerequisite: ECON 101 or 121 or 122

Applications of economic theory and models of economic development to the main patterns of U.S. postrevolutionary growth; emphasizes the history of economic development as a laboratory for testing economic hypotheses.

#### **ECON 345 International Trade**

3c-01-3sh

**Prerequisites:** ECON 121 and 122 or permission of the instructor

A study of the microeconomic segment of international specialization and exchange, including theories of international trade and their application to commercial policies, historical survey and examination of current problems of international trade, and the institutional setting of international trade.

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#### **ECON 346 International Payments**

3c-01-3sh

**Prerequisites:** ECON 121 and 122 or permission of the instructor

A study of the macroeconomic segment of international specialization and exchange, including analysis of balance of payments, exchange rates, and the mechanism of international economic and monetary adjustments; international macroeconomic policy; historical survey and examination of current international financial problems; and the institutional setting of international payments.

#### **ECON 350 Comparative Economic Systems**

3c-01-3sh

Prerequisite: ECON 101 or 121 or 122

An evaluation of premises, practices, institutions, and performance of capitalist, socialist, and mixed economies using economic theory and measurement.

#### **ECON 351 Russian Economic Development**

3c-01-3sh

Prerequisite: ECON 101 or 121 or 122

A study of the theory, institutions, and performance of the Russian economy including comparison of present and past patterns of economic development.

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#### **ECON 355 Statistics for Economists**

3c-01-3sh

An introduction to economic statistics, including frequency distributions, probability, distributions of random variables, functions of random variables, and tests of economic hypotheses.

#### **ECON 356 Introduction to Econometrics**

3c-01-3sh

**Prerequisites:** ECON 355 or its equivalent or permission of the instructor

An introduction to econometrics, including linear normal regression models of two or more random variables, special econometric problems, and solutions of simultaneous equations.

#### **ECON 360 Economics of Health Services**

3c-01-3sh

An analysis of the allocation of resources in the health sector using demand and supply techniques. Pricing and output decisions by physicians, hospitals, and other health agencies will be considered along with other current policy issues.

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#### **ECON 371 Economics of Labor Legislation**

3c-01-3sh

**Prerequisite:** ECON 330 or permission of the instructor

Economic background and effects of governmental regulation of labor relations, with emphasis on a detailed examination of National Labor Relations Act as amended.

#### **ECON 372 Economics of Wages and Employment**

3c-01-3sh

**Prerequisite:** ECON 330 or permission of the instructor

An analysis of wages and employment under various market structures. Also, analysis of the impact of labor market forces on wages, prices, and distributive shares.

#### **ECON 373 Economics of Human Resources**

3c-01-3sh

**Prerequisite:** ECON 101 or 122

An inquiry into economic demographics and related factors affecting growth, structure, and distribution of an economy's labor force into different occupations.

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#### **ECON 383 Urban/Regional Economics**

3c-01-3sh

**Prerequisites:** ECON 121 and 122

Location theory, land use patterns, urban economic/regional growth change, and urban economic problems and policies.

#### **ECON 421 Macroeconomic Analysis**

3c-01-3sh

**Prerequisites:** ECON 121, 122 or permission of the instructor

Emphasizes aggregate income levels and problems of unemployment, inflation, and growth. Covers consumption and investment theories and the role of fiscal and monetary policy.

#### **ECON 422 Microeconomic Analysis**

3c-01-3sh

Prerequisites: ECON 121, ECON 122, MATH 121 or equivalent

Consumer behavior, theory of the firm, theory of exchange, market structures, distribution, general equilibrium theory,

#### Back to Top

#### **ECON 480 Seminar**

3c-01-3sh

**Prerequisite:** Permission of the instructor

Seminar in selected economic issues or problems.

#### **ECON 481 Special Topics**

var-1-3sh

**Prerequisite:** Permission of the instructor

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

#### **ECON 482 Independent Study**

var-1-6sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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#### **ECON 493 Internship in Economics**

var-2-12sh

**Prerequisite:** A student must be an economics major who has completed at least 12 semester hours in economics and who has at least a 2.5 grade-point average in the major and in all coursework.

Provides on-the-job experience in economics positions with private and governmental employers. The student is also required to complete related academic work in the form of papers and selected readings. Number of semester hours earned will depend upon the nature of the job and amount of time involved in internship. A maximum of 6sh earned in this course may be counted toward the 30sh in economics requirement for Economics majors.

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## Education

#### **College of Education**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

EDUC 242 EDUC 281 EDUC 342 EDUC 389 EDUC 408 EDUC 415 EDUC 421 EDUC 423 EDUC 431 EDUC 441 EDUC 442 EDUC 451 EDUC 452 EDUC 453 EDUC 455 EDUC 456 EDUC 462 EDUC 481 EDUC 482 EDUC 495 EDUC 499

#### **EDUC 242 Pre-student Teaching Clinical Experience I**

var-1sh

**Prerequisite:** Admission to teacher certification

Observation/participation in a basic education classroom beginning not later than the sophomore year. Transfer students (and other selected students at the recommendation of the teacher education coordinator of the program) may register later than sophomore year upon admission to teacher certification.

#### **EDUC 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

#### **EDUC 342 Pre-student Teaching Clinical Experience II**

var-1sh

**Prerequisites:** EDUC 242 and admission to junior standing

Students work toward the development of specific competencies that relate to individual major fields of teaching.

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#### **EDUC 389 Field Experience Intervention**

3c-01-3sh

**Prerequisites:** Permission of department and instructor; Elementary Education or Early Childhood Education major Designed to assist the student in achieving the competencies within the major necessary for performance in student teaching. Teaching skills will be developed through one-on-one tutoring and a field experience. Each student will work in collaboration with the instructor to develop a personal learning contract that provides a means for demonstrating those competencies identified by the instructor and student. Students are expected to show commitment to self-development and teaching. Course is only offered on a pass/fail basis.

#### **EDUC 408 Reading in the Content Areas**

3c-01-3sh

**Prerequisite:** ELED 222

Problems related to teaching students reading and study skills specifically needed in each of the subject areas at the

elementary level. Content teachers learn how to develop students' competence in these skills as part of their regular classroom instruction.

#### **EDUC 415 Computers in the School Curriculum**

3c-01-3sh

Prerequisite: <u>BEDU 101/COSC 101/IFMG 101</u> or permission of the instructor

Students will use a variety of computer software including word processing, record management programs, and simulation programs. Emphasis will be on the application of computer programs within the K-12 school curriculum.

#### **EDUC 421 Student Teaching**

var-6sh

**Prerequisite:** Admission to Student Teaching

An experience in teaching at the elementary level; coordination and visitation by a university faculty member with daily supervision by a cooperating classroom teacher.

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#### **EDUC 423 Professional Practicum, Including School Law**

var-3sh

A series of conferences and related activities to prepare students for actual teaching experiences. Parallels student teaching experience in junior and senior years. (Elementary Education majors only)

#### **EDUC 431 Student Teaching in Family and Consumer Sciences**

var-6sh

**Prerequisite:** Admission to Student Teaching

An experience in teaching family and consumer sciences at the secondary level.

#### **EDUC 441 Student Teaching**

var-6-12sh

**Prerequisite:** Admission to Student Teaching

An experience in teaching at the elementary or secondary level; coordination and visitation by a university faculty member with daily supervision by a cooperating classroom teacher.

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#### **EDUC 442 School Law**

1c-01-1sh

Required of all teacher certification students. Includes overview of legal principles that apply to special areas of education. Must be taken prior to student teaching.

#### **EDUC 451 Teaching Science in the Secondary School**

2c-2l-3sh

**Prerequisite:** Admission to Student Teaching

Background to help science majors meet the problems of teaching science. Various inquiry approaches useful in meeting objectives of a contemporary science class are taught and exemplified.

#### EDUC 452 Teaching of English and Communication in the Secondary School

3c-01-3sh

**Prerequisites:** ENGL 314, 323, and 380 and admission to Student Teaching

A prerequisite to student teaching in English. Introduces the student to current professional practices in the teaching of English and communications in high school.

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#### EDUC 453 Teaching of Foreign Languages in the Elementary/Secondary Schools

3c-01-3sh

**Prerequisites:** Successful completion of 321-322 and 351-352 in the student's major language; passage of a language proficiency examination or permission of the instructor, and admission to Student Teaching

The student will study current theories of language acquisition and methods of language teaching for the elementary and secondary school. Through hands-on practice and peer teaching demonstrations, the student will develop techniques for teaching functional language, planning lessons, setting curricular objectives, testing language skills, and selecting/adapting materials for both elementary and secondary school classrooms. (Course taught fall semester only)

#### **EDUC 455 Teaching of Social Science in Secondary Schools**

3c-01-3sh

**Prerequisite:** Admission to Student Teaching

A study of modern methods and techniques for teaching social science and of current curricula in social science.

#### **EDUC 456 Teaching Math in the Secondary Schools**

3c-01-3sh

**Prerequisite:** Admission to Student Teaching

A study of modern methods and techniques for teaching mathematics and current curricula.

#### **EDUC 462 Issues and Innovations in Education**

3c-01-3sh

A study of issues and innovations which influenced education will be included. Educational innovations and issues which deal with curriculum, school organization, and materials of instruction will be examined.

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#### **EDUC 481 Special Topics**

3c-01-3sh

**Prerequisite:** By permission only

Provides an opportunity for students to investigate in-depth an area of education under professional supervision.

#### **EDUC 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

#### **EDUC 495 International Study Tour in Education**

var-3sh

A study of various peoples through their cultural settings and educational systems; on-site visitation to selected schools and other social agencies and institutions; seminars with school officials and directed readings.

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#### **EDUC 499 Multicultural/Multiethnic Education**

2c-01-2sh

**Prerequisite:** One methods course must be taken prior to, or concurrently with, EDUC 499

Provides students with an understanding and appreciation of cultural diversity in the United States. Students will gain

the ability to locate and develop curricular materials appropriate to this country's diversity.

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# **Education of Exceptional Persons**

Department of Special Education and Clinical Services College of Education and Educational Technology

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

EDEX 111 EDEX 112 EDEX 221 EDEX 222 EDEX 231 EDEX 300 EDEX 301 EDEX 321 EDEX 340 EDEX 415 EDEX 416 EDEX 417 EDEX 418 EDEX 419 EDEX 425 EDEX 435 EDEX 440 EDEX 480 EDEX 481

#### **EDEX 111 Introduction to Exceptional Persons**

3c-01-3sh

Prerequisite: For department majors and official incoming transfers only

Surveys characteristics, needs, problems, and behavior patterns of any person who deviates sufficiently from "normal" to be considered exceptional. Consideration to those who fall intellectually both above and below average and to those who are handicapped visually, acoustically, behaviorally, orthopedically, neurologically, or in respect to speech patterns.

#### **EDEX 112 Typical and Atypical Growth and Development**

3c-01-3sh

Prerequisites: EDEX 111, PSYC 101

Presents foundations of human growth from conception, including basic embryogenesis, up to but not including adolescence. Considers the biological, cultural, educational, and parenting influences that shape the child, as well as selective examples of normal and deviant physical and intellectual development.

#### **EDEX 221 Methods of Teaching Mathematics to Persons with Disabilities**

3c-0l-3sh

**Prerequisites:** MATH 151, EDEX 111

Emphasizes recent developments in elementary curriculum and instructional techniques for developing concepts; implications of recent resource developments and materials helpful to the prospective special education teacher. Emphasis is also placed on methods of helping children learn mathematical concepts through physical activity and on ways to adapt regular classroom materials to meet needs and abilities of slow and disabled learners.

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#### **EDEX 222 Methods of Teaching Reading to Persons with Disabilities**

3c-01-3sh

**Prerequisite:** Sophomore status or above

Presents basic concepts of developmental reading instruction and systematic coverage of the methods of teaching reading from readiness stages through eighth grade. Diagnostic-prescriptive techniques are included.

#### EDEX 231 Methods of Teaching Content Area Subjects to Persons with Disabilities

3c-01-3sh

Prerequisites: EDEX 111, GPA 2.5

Presents methods for teaching science and social studies to the mentally and/or physically handicapped. Scope and

sequence of content, as well as evaluative techniques for each content area, are studied. Integration of other content areas and skill areas is stressed. Also stresses teaching in both resource room and less restrictive environments. (Offered as EX 322 prior to Spring, 1998)

## **EDEX 300 Education of Students with Disabilities in Inclusive Elementary Classrooms**

2c-01-2sh

**Prerequisites:** For Early Childhood and Elementary Education Majors only; to be taken only during the semester of the designated methods courses

Examines the issues associated with education of students with diverse learning needs, particularly those with disabilities or who are at risk for school failure. There is an emphasis on special education, particularly the legal rights of students with exceptionalities and their parents, and the responsibilities of educators in addressing those rights. Examines the differential impact of student characteristics on elementary-level school performance and instructional methods proven to be effective in educating students with disabilities and learning style differences.

## **EDEX 301 Education of Students with Disabilities in Inclusive Secondary Settings**

2c-01-2sh

**Prerequisite:** For Secondary Education Majors and others who will be certified to teach content from K-12 Recommendation: It is strongly recommended that students take this course in the same semester of the designated methods course.

Examines the issues associated with education of students with diverse learning needs, particularly those with disabilities or who are at risk for school failure. There is an emphasis on special education, particularly the legal rights of students with exceptionalities and their parents, and the responsibilities of educators in addressing those rights. Examines the differential impact of student characteristics on secondary-level school performance and instructional methods proven to be effective in educating students with disabilities and learning style differences.

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## **EDEX 321 Methods of Teaching Language Arts to Persons with Disabilities**

3c-01-3sh

Prerequisites: EDEX 111, EDEX 222, and SPLP 254, GPA 2.5

A review of typical and atypical characteristics of the handicapped in relationship to the language arts. Deals with preparation and execution of units of instruction in language arts for mentally and/or physically handicapped persons. Diagnostic and prescriptive approaches are included; integration of language arts with a highlight on reading is stressed.

## **EDEX 340 Introduction to Behavior Management in Special Education**

3c-01-3sh

Prerequisites: EDEX 111, EDEX 112, EDSP 202, GPA 2.5

An overview of systematic behavioral change techniques for use with students in a variety of special education settings including integrated, resource, self-contained, special school, and residential. Emphasizes a case analysis approach to creating and evaluating behavioral changes for students with mild to severe disabilities.

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## **EDEX 415 Preschool Education for Children with Disabilities**

3c-01-3sh

**Prerequisite:** Departmental permission, GPA 2.5

Provides information on assessment, intervention strategies, curriculum, and prescriptive planning for preschool children with disabilities. Serves as a course for departmental majors who are specifically interested in early childhood education, as an elective for other interested students in related fields, and as a priority course for Early Childhood Education majors.

#### EDEX 416 Education of Persons with Emotional or Behavioral Disorders

3c-01-3sh

**Prerequisite:** Junior status or above, GPA 2.5

Focuses on major theoretical positions regarding etiology of emotional and behavioral disorders, definition and identification of the population, and educational approaches. Reviews research in the field, including current issues, trends, practices, and services.

## EDEX 417 Education of Persons with Mental Retardation or Developmental Disabilities

3c-01-3sh

**Prerequisite:** Junior status or above, GPA 2.5

Focuses on major theoretical positions regarding etiology of mental retardation and developmental disabilities, including autism. Definition, identification, and educational approaches are discussed. Reviews research in the field, including current issues, trends, practices, and services.

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## **EDEX 418 Education of Persons with Physical or Multiple Disabilities**

3c-01-3sh

**Prerequisite:** Junior status or above, GPA 2.5

Focuses on major theoretical positions regarding etiology of a wide and diverse range of physical/multiple disabilities, the definition and identification of the population, and educational approaches. Reviews research in the field, including current issues, trends, practices, and services.

## **EDEX 419 Education of Persons with Brain Injuries or Learning Disabilities**

3c-01-3sh

Prerequisite: Junior status or above, GPA 2.5

Focuses on major theoretical positions regarding etiology of neurological and learning disabilities, definition and identification of the population, and educational approaches. Reviews research in the field, including current issues, trends, practices, and services

## **EDEX 425 Methods and Curriculum (Mild-Moderate Disabilities)**

3c-0l-3sh

**Prerequisites:** EDEX 221, 222, 231, 321, 340, GPA 2.5

Provides in-depth examination of assessment methods, strategies, and curricula. Emphasizes assessment methods and strategies used in a variety of service models that serve elementary- and secondary-level students with learning disabilities, behavioral disorders, mild mental retardation, and high-function autism.

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## **EDEX 435 Methods and Curriculum (Severe-Profound Disabilities)**

3c-01-3sh

**Prerequisites:** EDEX 221, 222, 231, 321, 340, GPA 2.5

Emphasizes methods designed to facilitate the development of an integrated, functional, and community-based curriculum that will prepare students for participation in a wide variety of postschool environments.

## **EDEX 440 Ethical and Professional Behavior**

1c-0l-1sh

**Prerequisites:** Departmental permission, GPA 2.5

Emphasizes ethical and professional behavior for student teachers and professional employees. Possibilities for and methods of initiating and profiting from postbaccalaureate study are indicated. Student teachers are required to complete and present a curriculum book regarding each student-teaching experience.

## **EDEX 480 Seminar in Special Education**

var-1-3sh

Prerequisite: Departmental permission

Interested students may use this course for the pursuit of knowledge regarding specific concerns of the exceptional which are not ordinarily considered in such detail during regular classroom instruction. Students wishing to enroll are expected to submit a written proposal regarding their desire for study at the time permission for enrollment is sought. With permission, the course may be repeated for credit.

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## **EDEX 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# **Education of Persons with Hearing Loss**

Department of Special Education and Clinical Services College of Education and Educational Technology

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

EDHL 114 EDHL 115 EDHL 244 EDHL 281 EDHL 307 EDHL 308 EDHL 329 EDHL 330 EDHL 331 EDHL 351 EDHL 360 EDHL 365 EDHL 481 EDHL 482

## **EDHL 114 Introduction to Persons with Hearing Loss**

3c-01-3sh

**Prerequisites:** Advisor permission, EDHL majors only

Deals with the different approaches used in teaching the hearing impaired—manual language, oral language, and total communication. The historical background of each approach is presented with its strengths and weaknesses. Criteria for the use of each approach established in consideration of degree of loss exhibited by the pupil, the age of onset, and the social and psychological implications.

## **EDHL 115 Introduction to Sign Language**

1c-01-1sh

Development of manual dexterity and fluency using fingerspelling. Acquisition of basic sign language vocabulary. Practice in acquiring general information from a signed message and conversing informally on commonly used topics.

## **EDHL 244 Intermediate Sign Language**

1c-01-1sh

Prerequisite: **EDHL** 115

Emphasis will be on comprehension of signed information and on developing fluency in conveying a message in both signed English and American Sign Language. Modification of signs and individualization of techniques for instruction/communication with learning-impaired or multihandicapped deaf learners.

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## **EDHL 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

## **EDHL 307 Speech for Persons with Hearing Loss**

3c-01-3sh

Prerequisites: EDHL 114, SPLP 242, 2.5 GPA

Techniques for developing, diagnosing, analyzing, and correcting the speech and voice problems of hearing-impaired individuals. Lecture, demonstration, and special projects.

## **EDHL 308 Language for Persons with Hearing Loss**

3c-01-3sh

Prerequisites: EDHL 114, SPLP 334, 2.5 GPA

Development and remediation of language of the hearing impaired. Language sampling and diagnostics, sentence patterning, and analytic vs. natural teaching methods. Structuring a communicative environment.

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## **EDHL 329 Hearing Practicum I**

var-1sh

Prerequisites: EDHL 114, 115, 2.5 GPA

Provides the student with actual contact with individuals with hearing loss. Practica will be set up in appropriate school programs and/or clinics for the hearing impaired, in hearing itinerant programs, or in clinical settings where hearing-impaired individuals are receiving therapy or are being tested. Techniques of observing and evaluating behavior are presented initially to prepare the student to profit maximally from the observation experiences. Written reports of the practica are submitted and discussed, and each student is encouraged to gain experience in as many different settings as available.

## **EDHL 330 Hearing Practicum II**

var-1sh

**Prerequisites:** EDHL 329, 2.5 QPA

Provides students with actual contact with individuals with hearing loss. Practica will be set up in appropriate school programs and/or clinics for the hearing impaired, in hearing itinerant programs, or in clinical settings where hearing-impaired individuals are receiving therapy or are being tested. Techniques of observing and evaluating behavior are presented initially to prepare the student to profit maximally from the observation experiences. Written reports of the practica are submitted and discussed, and each student is encouraged to gain experience in as many different settings as available. This is a continuation of EDHL 329: Hearing Practicum I and includes support and supervision of students in EDHL 329.

## **EDHL 331 Advanced Sign Language**

1c-0l-1sh

Prerequisites: EDHL 115, 244, 2.5 GPA

Studies the evolution of signs; dialectical sign systems. Analysis and comparison of the linguistic similarities/differences of various sign languages. Direct translation of written or spoken information on specific topics using American Sign Language or Signed English. Practice using conversation on both a social and academic level.

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## **EDHL 351 Teaching Reading to Persons with Hearing Loss**

3c-01-3sh

Prerequisite: EDHL 308, 2.5 GPA

Presents basic concepts of developmental reading instruction and systematic coverage of the methods of teaching reading to students with hearing loss from readiness stages through upper school.

## EDHL 360 General Methodology for Education of Persons with Hearing Loss

3c-01-3sh

**Prerequisites:** EDHL 114, 307, 308, 2.5 GPA

Provides a systematic coverage of the basic procedures for teaching curriculum subjects. Included are adaptive methods of instruction for teaching mathematics; science as it relates to the child and the curriculum; content, objectives, and resource materials for social studies; creative experiences in the field of language arts, rhythmics, and physical education and health.

## **EDHL 365 Parent-Preschool Programs for Persons with Hearing Loss**

3c-01-3sh

## Prerequisites: EDHL 307, EDHL 308, EDHL 114, EDEX 112, SPLP 334, 2.5 GPA

Developing home/clinic programs for parents and hearing-impaired infants (0-3 years). Teaching speech, language, speechreading, use of residual hearing, and developing readiness skills at preschool level.

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## **EDHL 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

## **EDHL 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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# **Educational and School Psychology**

# **Department of Educational and School Psychology College of Education**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

EDSP 202 EDSP 281 EDSP 373 EDSP 376 EDSP 377 EDSP 378 EDSP 481 EDSP 482 EDSP 499

## **EDSP 202 Educational Psychology**

3c-01-3sh

**Prerequisites:** <u>PSYC 101</u>, admission to sophomore standing in teacher certification or permission Designed to promote a better understanding of the principles of psychology governing human behavior, with particular emphasis on their relation to learner, learning process, and learning situation in an educational environment.

## **EDSP 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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## **EDSP 373 Psychology of Adolescent Education**

3c-01-3sh

Prerequisite: EDSP 202

A study of significant characteristics, behavior, and educational and social problems of adolescents.

## **EDSP 376 Behavior Problems**

3c-01-3sh

Prerequisite: EDSP 202

An examination of emotional and social aspects of behavior problems encountered in classroom situations and potential remedial techniques.

## **EDSP 377 Educational Tests and Measurements**

3c-01-3sh

**Prerequisites:** PSYC 101, admission to junior standing in teacher certification or permission Designed to acquaint students with major methods and techniques of evaluation used to assess and report growth, development, and academic achievement of individuals in an educational environment. Includes interpretation of standardized test information.

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**EDSP 378 Learning** 

3c-01-3sh

Prerequisite: EDSP 202

Explores learning theories and educational application in the classroom.

## **EDSP 481 Special Topics in Educational Psychology**

var-1-3sh

**Prerequisite:** Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are offered primarily for upper-level undergraduate students.

## **EDSP 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

## **EDSP 499 Independent Study**

var-1-3sh

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# **Elementary Education**

**Professional Studies in Education College of Education and Educational Technology** 

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

ELED 211 ELED 213 ELED 215 ELED 221 ELED 222 ELED 257 ELED 281 ELED 312 ELED 313 ELED 314 ELED 322 ELED 351 ELED 357 ELED 411 ELED 422 ELED 425 ELED 481 ELED 482

**Note:** Courses in Elementary Education are restricted to majors with a 2.5 average, except by departmental permission.

## **ELED 211 Music for the Elementary Grades**

2c-01-2sh

Geared for elementary education students. Includes basic ideas for understanding, development, and confidence for future classroom teachers and their pupils in areas of music education.

## **ELED 213 Art for the Elementary Grades**

2c-01-2sh

The creative use of art materials and an understanding of development of capacities of children through art.

## **ELED 215 Child Development**

3c-01-3sh

A survey of human development, from conception to adolescence, in terms of basic scientific data. Development, growth, and behavior are studied and their implications for home, school, and community are considered.

#### **ELED 221 Children's Literature**

3c-01-3sh

Acquisition of a wide acquaintance with children's literature, old and new. Poetry selections, annotated stories, and bibliographies will be assembled. Ways and means to develop, stimulate, and guide children's reading of literature presented. Principles and techniques of successful storytelling are studied and practiced.

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## **ELED 222 Reading for the Elementary School**

3c-01-3sh

A systematic coverage of the teaching of reading, including methods, techniques, and materials.

## ELED 257 Pedagogy I

3c-01-3sh

Competencies specific to the science of teaching will be introduced. Students will become familiar with the fundamentals of teaching at the elementary level. Areas that will be explored include models of teaching, including

lesson and unit planning, and creating a classroom environment that is conducive to learning. (Offered as EL356 prior to 1997-98)

## **ELED 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

## **ELED 312 Teaching of Elementary Science**

2c-01-2sh

Emphasis placed upon science as it relates to child and curriculum, planning for teaching science, and recent innovations in science teaching. Course offered on the junior block only.

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## **ELED 313 Teaching Mathematics in the Elementary School**

3c-0l-3sh

Prerequisites: MATH 151, 152, ELED 257

Recent developments in curriculum and methods of instruction of contemporary elementary school mathematics programs. Students will become acquainted with books, materials, and other resources helpful to prospective teachers. Includes observations of master teachers.

## **ELED 314 Teaching of Health and Physical Education**

2c-01-2sh

Games, stunts, rhythms, relays, tumbling, dances, and skills suitable for the elementary school child. Teaching of health in elementary school is emphasized, including methods, materials, and lesson planning.

## **ELED 322 Teaching of Reading II**

3c-01-3sh

The second course of a two-course sequence. Systematic coverage of teaching of reading, including methods, materials, and lesson planning.

## **ELED 351 Creative Activities in the Elementary School**

3c-01-3sh

Provides students with a wide range of creative experiences in fields of art, crafts, music, rhythmics, dramatics, and games in elementary school. Stress is placed upon need to help children in developing their capacities for creative expression in these areas.

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## **ELED 357 Pedagogy II**

3c-01-3sh

**Prerequisite:** Junior status

Principles based on classroom experience. Instruction will include classroom management skills, integration of computers in the elementary curriculum, contemporary issues in education, the role of research in elementary classroom teaching, and teacher professionalism during and after field experiences. (Course is writing intensive.)

## **ELED 411 Teaching of Social Studies**

3c-01-3sh

An overview of social studies in elementary school. Includes study of objectives, trends, areas of content, patterns and principles of organization, and techniques of teaching. Variety of learning experiences and materials used and evaluated.

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## **ELED 422 Diagnostic and Remedial Reading**

3c-01-3sh

Prerequisite: **ELED 222** 

Causes of reading disability; methods of diagnosis; procedures and materials for remedial work, group and individual.

## **ELED 425 Language Arts Across the Curriculum**

3c-01-3sh

**Prerequisite:** ELED 222

Places emphasis on the view that the art of communication is an interrelated process and the task of classroom teachers is not only integrating the language arts among themselves but also integrating them throughout the entire curriculum. Techniques for teaching oral and written communication, spelling, handwriting, vocabulary development, listening, and linguistics will be presented. Special emphasis given to recent trends and research. Course is offered as a writing-intensive course.

## **ELED 481 Special Topics**

var-3sh

**Prerequisite:** Approval of instructor and department

A course/seminar on topics in education appropriate for the Elementary Education setting.

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## **ELED 482 Independent Study**

var-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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# **English**

## Department of English College of Humanities and Social Sciences

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

ENGL 100 ENGL 101 ENGL 121 ENGL 122 ENGL 150 ENGL 202 ENGL 208 ENGL 210 ENGL 211 ENGL 212 ENGL 213 ENGL 214 ENGL 215 ENGL 216 ENGL 217 ENGL 220 ENGL 221 ENGL 225 ENGL 281 ENGL 301 ENGL 302 ENGL 303 ENGL 304 ENGL 305 ENGL 306 ENGL 307 ENGL 310 ENGL 311 ENGL 312 ENGL 313 ENGL 314 ENGL 315 ENGL 316 ENGL 317 ENGL 318 ENGL 319 ENGL 320 ENGL 322 ENGL 323 ENGL 324 ENGL 325 ENGL 326 ENGL 329 ENGL 330 ENGL 332 ENGL 333 ENGL 334 ENGL 335 ENGL 336 ENGL 337 ENGL 338 ENGL 344 ENGL 348 ENGL 349 ENGL 354 ENGL 356 ENGL 357 ENGL 385 ENGL 386 ENGL 387 ENGL 390 ENGL 391 ENGL 393 ENGL 394 ENGL 395 ENGL 396 ENGL 401 ENGL 420 ENGL 422 ENGL 430 ENGL 432 ENGL 434 ENGL 436 ENGL 436 ENGL 461 ENGL 462 ENGL 480 ENGL 481 ENGL 482 ENGL 493

## **ENGL 100 Basic Writing**

3c-01-3sh

Designed to develop the basic English skills necessary for clear and effective communication. Reserved for selected students. Does not meet General Education English or Liberal Studies writing requirements.

## **ENGL 101 College Writing**

3c-var-4sh

**Prerequisite:** ENGL 100, where required by placement testing

Normally to be taken the first semester at IUP. Courses use readings in the nature and history of language, semantic and linguistic analysis, and problems in rhetoric and other approaches to composition. Seven theme-length expository papers (or the equivalent) are written, in addition to shorter exercises and a written final examination.

## **ENGL 121 Humanities Literature**

3c-01-3sh

**Prerequisite:** ENGL 101

Introduces students to literature of various genres through a careful analysis of poetry, fiction, and drama. Includes literature of various time periods, nationalities, and minorities.

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## **ENGL 122 Introduction to Literary Analysis**

3c-01-3sh

**Prerequisite:** ENGL 101

Acquaints students with the literary genres (especially fiction, poetry, and drama) by means of examples of each and provides them with some of the various critical approaches to the interpretation of literature so that they may gain the ability to apply them. At the conclusion of the course, students are expected to be able to read literature perceptively and to write critical papers about it. (Offered as EN210 prior to Spring, 1998)

## **ENGL 150 English for Foreign Students**

3c-01-3sh

Provides international students with an opportunity to improve their ability to speak and write English before they take <u>ENGL 100</u> and <u>ENGL 101</u>. The emphasis is on individualized exercises and assignments. This course carries graduation credit but does not meet Liberal Studies English requirements.

## **ENGL 202 Research Writing**

3c-01-3sh

**Prerequisites:** ENGL 101, sophomore standing

Teaches students to read, analyze, and evaluate nonfiction sources and to present the results of their analysis in clear, organized, carefully documented research papers. The focus of reading and research in each section will be determined by the instructor.

## ENGL 208 The Art of the Film

3c-01-3sh

Concentrates on the film as an artistic medium. Eight to twelve motion pictures are shown during semester and are analyzed in class discussions.

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## **ENGL 210 British Literature to 1660**

3c-0l-3sh

**Prerequisites:** ENGL 101, 122, or permission

Surveys British literature from its beginnings to about 1660, acquainting students with the experience of reading many of the primary materials (whole works whenever possible or full, free-standing parts) and provides them with background information concerning the development and flowering of the various genres, the dominant ideas of each period, and the social and cultural context of the separate works. (Offered as EN211 prior to Spring, 1998)

## ENGL 211 British Literature 1660-1900

3c-01-3sh

**Prerequisites:** ENGL 101, 122, or permission

Surveys British literature from about 1660 to the beginning of the twentieth century, acquainting students with the experience of reading many of the primary materials (whole works whenever possible or full, free-standing parts) and providing them with background information concerning the development and flowering of the various genres, the dominant ideas of each period, and the social and cultural context of the separate work. (Offered as EN212: English Literature prior to Spring, 1998)

## **ENGL 212 American Literature: Beginnings to 1900**

3c-01-3sh

**Prerequisites:** ENGL 101, 122, or permission

Provides an understanding of American literature from its beginning to about 1900. The course will concentrate primarily upon a relatively small number of major works, each of which will help to illustrate the "spirit of the age" it represents. (Offered as EN213: American Literature: Beginnings to the Present prior to Spring, 1998)

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## **ENGL 213 British and American Literature Since 1900**

3c-01-3sh

**Prerequisites:** ENGL 101, 122, or permission

A survey of major authors and works in British and American literature since 1900. Begins with the shift from Victorianism and late nineteenth-century literature into modernism, as exemplified by writers such as Woolf, Hemingway, and O'Neill, and continues with postmodernism and contemporary literature.

## **ENGL 214 The Novel**

3c-01-3sh

**Prerequisites:** ENGL 101, 122, or permission

Surveys the development of the novel from Cervantes' Don Quixote to the present with emphasis on major writers and

forms in English. Includes consideration of teaching the novel.

## **ENGL 215 Poetry**

3c-01-3sh

Prerequisites: ENGL 101, 122, or permission

A study in appreciation of poetry, with special attention to the technique of the poet and structure of poetry. Includes consideration of teaching poetry.

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#### **ENGL 216 Short Fiction**

3c-01-3sh

**Prerequisites:** ENGL 101, 122, or permission

A study of the development of the short story from the middle of the nineteenth century to the present with attention to form, structure, and types of the story. Includes consideration of teaching short fiction.

## **ENGL 217 Drama**

3c-01-3sh

**Prerequisites:** ENGL 101, 122, or permission

The study of selected plays from various periods in an attempt to understand the function of drama. Includes consideration of teaching drama.

## **ENGL 220 Advanced Composition I**

3c-01-3sh

**Prerequisite:** ENGL 202

Primarily seeks to improve writing style, particularly in the more utilitarian forms, such as magazine article and personal essay.

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## **ENGL 221 Creative Writing**

3c-01-3sh

**Prerequisite:** ENGL 202

A seminar course in which students are expected to produce a substantial body of written work in one or more of the creative genres, the particular kind of writing chosen with regard to the special interests and abilities of each student.

## **ENGL 225 Introduction to Literature by Women**

3c-01-3sh

**Prerequisites:** ENGL 121 or 122 and ENGL 202

Major trends and motifs across genres (fiction, nonfiction, poetry, autobiography) which reflect themes and subjects of continuing interest to women writers. The intersection of genre with race, ethnicity, and social class will be of particular significance. (Offered as EN384 prior to Spring, 1998)

## **ENGL 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

## **ENGL 301 British Medieval Literature**

3c-01-3sh

Prerequisites: ENGL 202, 210, 211, 212, 213

Examines particular literary traditions in England from the eleventh to the fifteenth centuries, excluding Chaucer. The

purpose will be to acquaint students with the diversity of materials, ranging from prose to verse, oral to written, and serious to comic. Most texts will be taught in the original Middle English, accompanied by side glosses. Translations will be used where appropriate. Rather than survey the period comprehensively, the purpose here is to focus closely on particular aspects or writers as selected by the instructor.

## **ENGL 302 Renaissance Literature**

3c-01-3sh

Prerequisites: ENGL 202, 210, 211, 212, 213

Examines major works and genres in Elizabethan literature such as pastoral and tragedy and key fiction writers, dramatists, and poets during 1558-1603. Rather than survey the period comprehensively, the purpose here is to focus closely on a specific literary period and on the writers of this period as selected by the instructor. (Offered as EN361: The Renaissance prior to Spring, 1998)

## **ENGL 303 British Enlightenment Literature**

3c-01-3sh

Prerequisites: ENGL 202, 210, 211, 212, 213

British Enlightenment Literature refers to the imitation of the Greek and Roman authors of antiquity. Begins with the assumptions and goals of neoclassical literature and integrates the intellectual debates and contemporary politics (patriarchy, nascent capitalism, empire, slavery, class divisions) that flourished alongside of (and that shaped the emergence of) new genres (the slave narrative, the novel, gothic tales, the periodical essay). Rather than survey the period comprehensively, the purpose here is to focus closely on particular aspects or writers as selected by the instructor.

## **ENGL 304 British Romantic Literature**

3c-01-3sh

Prerequisites: ENGL 202, 210, 211, 212, 213

Emphasizes the relationship between literature and its milieu. Focuses primarily on English Romantic Poets but considers development in Germany, France, and America and examines its continuing manifestations in literature, culture, and politics. Rather than survey the period comprehensively, the purpose here is to focus closely on a specific literary period and on the writers of this period as selected by the instructor. (Offered as EN360: Romanticism prior to Spring, 1998)

## **ENGL 305 British Victorian Literature**

3c-01-3sh

**Prerequisites:** ENGL 202, 210, 211, 212, 213

Examines literary works against a background of rapidly changing social, economic, religious, and political forces. Counterculture movements, such as the Pre-Raphaelites, will be examined against "high Victorianism" to develop a sense of the tremendous intellectual and political energy of the period. Roots of recent concerns such as feminism, political literalism, and capitalism will be explored to help us better understand our own as well as the Victorian age. Rather than survey the period comprehensively, the purpose here is to focus closely on particular aspects or writers as selected by the instructor.

## **ENGL 306 Modern British Literature**

3c-01-3sh

Prerequisites: ENGL 202, 210, 211, 212, 213

Examines major works and trends in modern British literature, such as modernism or key fiction writers, dramatists, or poets during the first half of the twentieth century. Rather than survey the period comprehensively, the purpose here is to focus closely on particular aspects or writers as selected by the instructor.

## **ENGL 307 Contemporary British Literature**

3c-01-3sh

Prerequisites: <u>ENGL 202</u>, <u>210</u>, <u>211</u>, <u>212</u>, <u>213</u>

Examines major works and trends in contemporary British literature, such as late modernism, postmodernism, the age of diminishment, or key novelists, dramatists, and/or poets from the period 1945 to the present. Rather than survey the

period comprehensively, the purpose here is to focus closely on particular aspects or writers as selected by the instructor.

## **ENGL 310 Public Speaking**

3c-01-3sh

**Prerequisite:** ENGL 101

Fundamental principles of public speaking, audience analysis, interest and attention, and selection and organization of speech material.

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## **ENGL 311 Oral Interpretation**

3c-01-3sh

**Prerequisite:** ENGL 101

Emphasizes understanding and appreciation of literature through developing skill in reading aloud.

## **ENGL 312 Speech--Persuasion**

3c-01-3sh

Prerequisites: ENGL 202, 310

Advanced study of problems involved in influencing an audience.

## **ENGL 313 The Rhetorical Tradition**

3c-01-3sh

Prerequisites: ENGL 101, 310

Survey of rhetorical theory from Greek and Roman through modern times.

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## ENGL 314 Speech and Communication in the Secondary English Classroom

3c-01-3sh

Prerequisites: ENGL 122, 202

Offers students practical and theoretical approaches to relationships between oral and written communication. The course is performance based (involving a variety of communication activities) and knowledge based (involving study of research on language arts relationships). Emphasis is given to integration of the four language arts for improving teachers' own communication skills as well as those of their students.

## **ENGL 315 American Literature to 1820**

3c-01-3sh

**Prerequisites:** ENGL 202, 210, 211, 212, 213

The beginnings of American literary cultures from sixteenth-century pre-Columbian indigenous contacts with European explorations, through diverse colonializations (Hispanic, French, and British) including the importation of African slaves, up to the American Revolution and emergent U.S. literary nationalism in the first decades of the nineteenth century. Rather than survey the period comprehensively, the purpose here is to focus closely on particular aspects or writers as selected by the instructor.

## **ENGL 316 American Literature 1820-1880**

3c-01-3sh

**Prerequisites:** ENGL 202, 210, 211, 212, 213

Examines major works and trends in U.S. literature, from the Federalist, Romantic, and/or Realistic periods. Rather than survey the period comprehensively, the purpose here is to focus closely on particular aspects or writers as selected by the instructor.

## ENGL 317 American Literature 1880-1940

3c-01-3sh

Prerequisites: ENGL 202, 210, 211, 212, 213

Examines representative U.S. writers during 1880-1940. Includes traditional figures as well as writers who have recently entered the canon. Rather than survey the period comprehensively, the purpose here is to focus closely on particular aspects or writers as selected by the instructor.

#### **ENGL 318 Literature for Adolescents**

3c-01-3sh

**Prerequisites:** ENGL 101, 122, or permission, English Education major

Surveys poetry, drama, and fiction with which the adolescent is familiar through school work and personal reading.

## **ENGL 319 American Literature 1940-present**

3c-01-3sh

Prerequisites: ENGL 202, and at least two courses from 210, 211, 212, 213

Additional prerequisites for B.A. English majors: 210, 211, 212, 213

Focuses on various movements, themes, genres, and authors writing in the United States since 1940. Not a survey course; each section will develop an extended treatment of a particular topic selected by the instructor. Emphasizes writing by living writers to develop an understanding of the diversity, formally and thematically, of current U.S. literary production across genders and ethnicities.

## **ENGL 320 Advanced Composition II**

3c-01-3sh

Prerequisites: ENGL 202, 220

A workshop and tutorial atmosphere for students who intend to write or teach writing.

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## **ENGL 322 Technical Writing I**

3c-01-3sh

**Prerequisite:** ENGL 202

Focuses on helping the student to acquire and to apply communication skills essential to the technical and professional writer.

## **ENGL 323 Teaching Literature and Reading in the Secondary School**

3c-01-3sh

Prerequisites: ENGL 122, 202

Introduces students to the theory and research on teaching literature and reading in the secondary school. Reviews reader-response literary theory and classroom-based research on teaching literature. Also reviews socio-psycholinguistic reading theory and classroom-based research on teaching reading.

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## **ENGL 324 Teaching and Evaluating Writing**

3c-01-3sh

**Prerequisites:** ENGL 122, 202, English Education major or permission

A study of modern approaches to the teaching of writing, including current theories on the composing process, as well as instruction in evaluating, including holistic scoring. Includes practice in writing.

## **ENGL 325 Creative Writing: Poetry**

3c-01-3sh

**Prerequisites:** ENGL 221, permission of instructor based on samples of student's work

A writing workshop for students who wish to focus intensively on the writing and revision of poetry and on developing an audience for one's works.

## **ENGL 326 Creative Writing: Fiction**

3c-01-3sh

**Prerequisites:** ENGL 221, permission of instructor based on samples of student's work

A writing workshop for students who wish to write fiction under the guidance of an instructor. Focuses intensively on the writing and revision of prose fiction and on developing an audience for one's works.

## **ENGL 329 The History of the English Language**

1c-0l-1sh

**Prerequisite:** ENGL 202

Studies historical development of the English language, as a basis for a better understanding of modern American English.

## **ENGL 330 The Structure of English**

3c-01-3sh

**Prerequisite:** ENGL 202

An introduction to the fundamentals of language study with equal emphasis on the sound, word, sentence, meaning, and discourse patterns of English. Educationally relevant topics, such as applications of linguistics to the teaching of English language and literature, varieties of grammar, and linguistic descriptions of styles and registers are an integral part of the course. Course is a prerequisite for <u>EDUC 452</u>: Teaching of English in the Secondary School.

## **ENGL 332 Advanced Film**

3c-01-3sh

Prerequisites: ENGL 101, 208

Offers a close examination of classic and contemporary films and film theory from a variety of critical perspectives: spectatorship, cinematic authorship, feminism, historiography, genre, and cultural studies. Pays special attention to the treatment of women and African-Americans in film.

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## **ENGL 333 Psycholinguistics**

3c-01-3sh

**Prerequisite:** ENGL 202

Concerns the interrelation between language system and behavior and various factors of human psychology. Surveys developments since the 1940s, including relationships between language and perception, biology, memory, meaning, and cognition, as well as oral and written behavior. Students of language and literature may improve their assumptions about how human beings use language.

#### **ENGL 334 ESL Methods and Materials**

3c-01-3sh

Prerequisite: Junior standing or permission of the instructor

Prerequisite: Junior standing or permission of the instructor An introduction to English as a Second Language theory and practice. Aims: (1) general understanding of current theory and methods of teaching ESL; (2) ability to select appropriate, and adapt existing, materials for elementary and high school ESL students. Recommended for all English teachers who expect to have ESL students in their classes.

## **ENGL 335 The Essay**

3c-0l-3sh

**Prerequisites:** ENGL 202, 210, 211, 212, 213

Focuses on the creation and development of the essay in English, its form and content, from its beginnings to the present. Students will begin by studying Francis Bacon, the first English essayist, and follow the evolution of the form to the present day.

## ENGL 336 Language, Gender, and Society

3c-01-3sh

Prerequisites: **ENGL 202**, junior standing

Investigates the various ways that language and gender interact and intersect in society. Examines such questions as: Does society use language to favor one sex over the other? Why is language a crucial component in formulating

constructs of masculinity and femininity? What stereotypes of gender-based language are promoted in our society? How can we analyze language to reveal disparate views and treatment of the sexes?

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## ENGL 337 Myth

3c-01-3sh

Prerequisites: ENGL 202, and at least two courses from 210, 211, 212, 213

Additional prerequisites for B.A. English majors: 210, 211, 212, 213

Examines the nature and function of the mythic experience and explores the archetypal patterns of myths from various cultures. (Offered as EN370: Myth and Literature prior to Spring, 1998)

#### **ENGL 338 Oral Literature**

3c-01-3sh

Prerequisites: <u>ENGL 202</u>, <u>210</u>, <u>211</u>, <u>212</u>, <u>213</u>

Acquaints students with the nature of oral composition, the habits of thought that orality fosters, and the particular mode of awareness the oral dimension of literature demands of an audience (and awakens in a reader). At the conclusion of the course students should have an understanding of the formulaic nature of such purely oral forms as the ballad and the epic and an awareness of the manner in which orality patterns thought differently from writing, and they should be able to detect oral features and patterns in works of literature from cultures not primarily oral but containing a high "oral residue." (Offered as EN353: The Oral Dimension prior to Spring, 1998)

#### **ENGL 344 Ethnic American Literature**

3c-01-3sh

Prerequisites: ENGL 202, and at least two courses from 210, 211, 212, 213

Additional prerequisites for B.A. English majors: 210, 211, 212, 213

Concerned with ethnic U.S. experiences as expressed in poetry, fiction, drama, and autobiography. The topic will vary and be announced in advance. Examples include Asian-American, Hispanic, Irish-American, Jewish-American, and Native-American literatures.

#### **ENGL 348 African-American Literature**

3c-01-3sh

**Prerequisites:** ENGL 121 or 122 and 202

Primarily nineteenth- and twentieth-century African-American literature (poetry, fiction, nonfiction): includes works by Frederick Douglass, W.E.B. Du Bois, spirituals and folk poetry, Harriet B. Wilson, Jean Toomer, Richard Wright, Audrey Lorde, and Toni Morrison. Emphasis will be on historical context and an Afrocentric approach.

## **ENGL 349 English Bible as Literature**

3c-01-3sh

**Prerequisites:** ENGL 121 or 122 and 202

Considers literary aspects of the English Bible by relating earlier translations to the Authorized Version of 1611 and by tracing some of the major influences of the King James Bible upon writers and speakers of modern English. Offers a close reading of the major narrative and poetic portions of the Old Testament.

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#### **ENGL 354 Classical Literature in Translation**

3c-01-3sh

Prerequisites: ENGL 122, 202

Masterpieces studied range from those of ancient Greece to Middle Ages. English literature and American literature excluded. (Offered as EN345 prior to Spring, 1998)

## **ENGL 356 Film Theory**

3c-01-3sh

Prerequisites: ENGL 101, 208

An introduction to major film theories, studied in relation to representative films. Details the complex relationship between film production and film theory: i.e., how theorists have attempted to explain what appears on the screen, its impact, and its relation to "reality," and how filmmakers have responded to the works of theorists (with the two sometimes being the same). Goes far deeper into understanding film than ENGL 208, which focuses mainly on how film is constructed through aesthetic and institutional processes.

## **ENGL 357 Major Figures in Film**

3c-0l-3sh

Prerequisites: ENGL 101, 208

Studies major artists and their contributions to the development of film as an art form from its beginnings to the present. Close analyses of directors, cinematographers, editors, screenwriters, or actors—as individuals or as representatives of a movement in film. Topics will vary from semester to semester; thus, one semester may concentrate on a specific director such as Alfred Hitchcock; another semester might study women (as directors, actresses, and editors); and yet another semester might study a collective movement such as film noir.

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#### **ENGL 385 Advanced Women's Literature**

3c-01-3sh

Prerequisites: ENGL 202 and for non-majors ENGL 225

Considers issues of genre and canon revision and why particular genres may have particular appeal for women writers. While many of our readings will be by "literary women," we will also consider works by women who were professionals in nonliterary disciplines.

## **ENGL 386 Regional Literature in English**

3c-01-3sh

**Prerequisites:** ENGL 202, and at least two courses from 210, 211, 212, 213

Additional prerequisites for B.A. English majors: 210, 211, 212, 213

Examines the contributions of a particular region to national literature. The focus of the course might be any of the following: Appalachian writers, local color writers, New England writers, Southern writers, writers of the American West, or Canadian writers.

## **ENGL 387 Irish Literature**

3c-01-3sh

Prerequisites: ENGL 202, 210, 211, 212, 213

An introduction to Irish literature since 1800, with particular emphasis on the Literary Revival in the early twentieth century. Key authors include Yeats, Joyce, Synge, O'Casey, Edgeworth, Somerville and Ross, Gregory, Beckett, and Heaney. The development of Irish writing will be examined within the contexts of Irish history, language, culture, and politics.

## **ENGL 390 Literary Tour: Britain**

3c-01-3sh

ENGL 390 Literary Tour: Britain var-3sh Offered selected summers, for five weeks during the first or second summer session. Visits London, Stratford, and Cambridge or Oxford, as well as other places important in English literature.

#### ENGL 391 Selected Works from the Medieval Period

3c-01-3sh

Prerequisites: ENGL/FL121 or ENGL 122, ENGL 202

Comparative study of selected works of major importance per se and as representative of major themes of medieval European literature. Also listed as <u>FNLG 391</u>.

## **ENGL 393 Romanticism**

3c-01-3sh

Prerequisites: ENGL/FL121 or ENGL 122, ENGL 202

Study of the principal authors and works of late eighteenth-century and early nineteenth-century Europe and the unique national characteristics of the Romantic movement in lyric, drama, and prose. Also listed as <u>FNLG 393</u>.

## **ENGL 394 Nineteenth-Century European Novel in Translation**

3c-01-3sh

Prerequisites: ENGL/FL121 or ENGL 122, ENGL 202

A survey of major nineteenth-century European novels in translation (excluding English), emphasizing the rise of realism and naturalism and the cultural, historical, social, and artistic relationships between the various national literatures. Also listed as FNLG 394.

## **ENGL 395 Selected Writers from Twentieth-Century Europe**

3c-01-3sh

Prerequisites: ENGL/FL121 or ENGL 122, ENGL 202

Comparative study of selected works of major importance per se or as representatives of major trends in twentieth-

century literature. Also listed as FNLG 395.

## **ENGL 396 The Literature of Emerging Nations**

3c-01-3sh

**Prerequisites:** ENGL/FL121 or ENGL 122, ENGL 202

A comparative study of a selection of literature written in major European languages but originating in the nations of the developing world. Works will be mainly prose fiction (although essay, theater, and poetry may be included) and reflect a diversity of geographical, cultural, and prior colonial circumstances. Also listed as <u>FNLG 396</u>.

## **ENGL 401 Advanced Literary Theory and Criticism**

3c-01-3sh

**Prerequisites:** ENGL 202, 210, 211, 212, 213

Acquaints students with major issues and problems in literary theory. Rather than survey the history of criticism and theory, this course focuses on modern and contemporary critical schools and methods. The purpose is to introduce students to a select group of influential theories and theorists and how such theories impact the way we read, study, and teach literature and cultural studies.

## **ENGL 420 Special Writing Applications**

3c-01-3sh

**Prerequisite:** ENGL 220

Offers students who are well into their disciplines "forums" for advanced reading and writing about the cultural, professional, and personal uses of textual knowledge. Students will read, analyze, and compose essays that build meaning around disciplinary knowledge, independent reading, and personal or preprofessional experience. They will be encouraged to make connections between disciplinary knowledge and emerging knowledge or experience.

## **ENGL 422 Technical Writing II**

3c-01-3sh

**Prerequisite:** ENGL 322

An advanced workshop/tutorial that provides intensive instruction in technical writing. Technical Writing II builds on the basics of audience, readability, proposals and reports, letters, memos, and resumes which are covered in Technical Writing I. Describes the writer's role in such areas as legal and ethical aspects of technical communication; planning, testing, reviewing, and evaluating documents; and proofreading and editing.

## **ENGL 430 Major British Author**

3c-01-3sh

**Prerequisites:** ENGL 202, 210, 211, 212, 213

Examines major works of a single major author, including biographical, literary, and cultural contexts. Places the author within both intellectual/cultural history and literary developments. Major author studied in a particular semester to be announced in advance.

#### **ENGL 432 Chaucer**

3c-01-3sh

Prerequisites: <u>ENGL 202</u>, <u>210</u>, <u>211</u>, <u>212</u>, <u>213</u>

Studies Chaucer, his life, his language, the development of his literary style, and his art, with and through his major poetical works. (Offered as EN340 prior to Spring, 1998)

## **ENGL 434 Shakespeare**

3c-01-3sh

Prerequisites: ENGL 202, and at least two courses from 210, 211, 212, 213

Additional prerequisites for B.A. English majors: 210, 211, 212, 213

Studies Shakespeare's development as a poetic dramatist against background of Elizabethan stage; examines audience, textual problems, language imagery, and philosophy. (Offered as EN341 prior to Spring, 1998)

## **ENGL 436 Major American Authors**

3c-01-3sh

Prerequisites: ENGL 202, 210, 211, 212, 213

Studies in the literary output of a major American author or authors against the background of the social and literary milieus in which the works were created. Specific subject or subjects to be announced by the instructor. (Offered as EN343 prior to Spring, 1998)

## **ENGL 460 Topics in Film**

3c-01-3sh

Prerequisites: ENGL 101, 208

Selected films dealing with a specific, advanced topic will be viewed and assessed to explore the different roles that film plays. Topic to be announced in advance

## **ENGL 461 Topics in British Literature**

3c-01-3sh

**Prerequisites:** ENGL 202, 210, 211, 212, 213

Examines major works of a particular topic in British literature by focusing on its cultural and literary contexts. Topic to be announced in advance.

## **ENGL 462 Topics in American Literature**

3c-01-3sh

Prerequisites: ENGL 202, 210, 211, 212, 213

Examines major works of a particular topic in American literature by focusing on its cultural and literary contexts.

Topic to be announced in advance.

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## ENGL 480 Seminar: Studies in English and American Literature

var-3sh

Prerequisites: ENGL 101, 122, 202

Corequisites: ENGL 211, 212, 213, or permission

A seminar experience designed for advanced students. Students considering graduate work in English might well wish to enroll, but students with a variety of career goals—business, industry, law, government service—can take advantage of this opportunity to plan a schedule of independent study with the help of a faculty mentor.

## **ENGL 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Vary from semester to semester covering such diverse topics as autobiography, science fiction, folklore, the political novel, black theater, etc.

## **ENGL 482 Independent Study**

var-1-6sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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## **EN 493 Internship**

var-3-12sh

On-the-job training opportunities in related areas. Application and acceptance to internship program required.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# **Family and Consumer Sciences Education**

## College of College of Health and Human Services

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

FCSE 281 FCSE 350 FCSE 450 FCSE 481 FCSE 482

## **FCSE 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

## FCSE 350 Teaching Family Life Education

3c-01-3sh

Prerequisites: FCSE 250, EDUC 242

Corequisite: EDSP 302

Emphasis will be on teaching family life education in family and consumer sciences classrooms and through community organizations and agencies. Lessons are planned and implemented using a variety of instructional methods incorporating adaptations and modifications for special needs learners, basic skills, global concerns, and use of a problem-solving/decision-making approach. Planning of content, learning activities, instructional materials, and evaluation based on clearly stated objectives are emphasized. A microcomputer spreadsheet is utilized to manage a department budget and a gradebook. Participation in professional organization activities is expected.

## FCSE 450 Teaching Vocational Home Economics

3c-01-3sh

**Prerequisite:** FCSE 350

Emphasis is on teaching vocational family and consumer sciences in consumer/homemaking and occupational family and consumer sciences programs. Federal legislation impacting on family and consumer sciences is analyzed for use in program decisions. Emphasis is given to program development using CBVE model, development of individual learning packets, vocational youth organizations, advisory committees, family and consumer sciences and vocational educational priorities, professional organizations, proposal development for funding, impact on public policy, marketing family and consumer sciences, and development of a personal philosophy of family and consumer sciences education.

## **FCSE 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

## FCSE 482 Independent Study

## var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office Upper-level students with high scholastic achievement pursue their particular interests outside the realm of the organized home economics education curriculum. May be taken more than once to a maximum of 3sh. Approval is based on academic appropriateness and availability of resources.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# Family and Consumer Sciences Education and Child Development/Family Relations

## Department of Human Development and Environmental Studies College of Health and Human Services

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

<u>HMEC 218 HMEC 220 HMEC 224 HMEC 281 HMEC 317 HMEC 321 HMEC 324 HMEC 418 HMEC 422 HMEC 424 HMEC 426 HMEC 427 HMEC 463 HMEC 481 HMEC 482 HMEC 493</u>

## **HMEC 218 Child Development**

3c-01-3sh

**Prerequisite:** PSYC 101

Focuses on the normal development and behavior of children. A survey made of physical, emotional, social, and intellectual development of children from conception through early adolescence. Pertinent child development research analyzed.

## **HMEC 220 Teaching in Child Development Centers**

2c-4l-4sh

**Prerequisite:** HMEC 218 or equivalent

Techniques in planning for and teaching preschool children. Participation as teacher-assistant provides experience in applying principles of child guidance and development needed by teachers in preschool centers or secondary school child development laboratories.

## **HMEC 224 Marriage and Family Relations**

3c-01-3sh

Prerequisite: PSYC 101

Focuses on principles of human relations basic to marital decisions and adjustment. Influence of community and family experiences on personal development and adjustment explored.

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## **HMEC 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

## **HMEC 317 Infant Development**

2c-2l-3sh

**Prerequisite:** HMEC 218

A study of characteristic developmental changes of human infants from birth to approximately two and a half years.

Participation as teacher assistant in infant/toddler child care center provides experience in developmentally appropriate guidance and planning for very young children.

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#### **HMEC 321 Preschool Education**

3c-01-3sh

**Prerequisite:** HMEC 220 or concurrently

Examination of the child development philosophy as the basis for developmentally appropriate decisions and methods in preschool education programming. Emphasis is placed on play as a developmental process and as the major aspect of the preschool curriculum. May not be interchanged with <u>ELED 353</u>: Preschool Education.

## **HMEC 324 Family Dynamics**

3c-01-3sh

**Prerequisite:** HMEC 224 or equivalent

Emphasis will be on processes and models of family development topics. Focus on approaches and dynamics of principles related to familial and marital adjustment and coping.

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## **HMEC 418 Advanced Child Development**

3c-01-3sh

**Prerequisite:** HMEC 218

A study of trends and research in the field of child development based on a review of major theorists and current literature.

## **HMEC 422 Early Childhood Education**

3c-01-3sh

**Prerequisite:** HMEC 220 or concurrently

Current educational theories and research reviewed in terms of implication for preschool and their effect on material, equipment, and activity selection.

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## **HMEC 424 Family Issues**

3c-01-3sh

**Prerequisite:** HMEC 224

Concentrated study of selected areas of family life, with emphasis on current personal and social issues affecting the family.

## **HMEC 426 Techniques of Parent Education**

3c-01-3sh

**Prerequisite:** <u>HMEC 220</u> or equivalent

Examination of nature, extent, and significance of parent education. Interrelationships of home, school, and community agencies are examined in light of various programs, methods, and techniques of parenting education.

## **HMEC 427 Administration of Child Development Centers**

3c-01-3sh

**Prerequisites:** HMEC 220 or equivalent, juniors or seniors only

Development of special knowledge and competencies needed by successful administrators of child care programs including proposal writing, budgeting, management, staff selection and training, appropriate curriculum materials, philosophy, parent involvement, child advocacy, and program evaluation.

## **HMEC 463 Family and the Community**

3c-01-3sh

A study of community agencies and problems that affect families and their contributions to community. Investigation of ways group dynamics, communication media, and other resources aid understanding of human behaviors. Field experience is an integral part of the course.

## **HMEC 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

## **HMEC 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Upper-level students with high scholastic achievement pursue their particular interests outside the realm of the organized home economics education curriculum. May be taken more than once to a maximum of 3sh. Approval is based on academic appropriateness and availability of resources.

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## **HMEC 493 Internship**

var-6-12sh

**Prerequisites:** Permission of department, college dean, and university internship coordinator; upper-level standing Practical experience related to the student's major area of study. Objectives are developed individually in consultation with university faculty member who supervises the internship. Log and major paper required. May be repeated up to a total of 12sh; however, these semester hours are not applicable toward the 124sh required for graduation if student receives 12sh in student teaching.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

## **Fashion Merchandising**

## Department of Human Development and Environmental Studies College of Health and Human Services

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

FSMR 110 FSMR 112 FSMR 212 FSMR 252 FSMR 281 FSMR 303 FSMR 314 FSMR 350 FSMR 357 FSMR 385 FSMR 433 FSMR 434 FSMR 450 FSMR 453 FSMR 456 FSMR 457 FSMR 480 FSMR 481 FSMR 482

#### FSMR 110 Introduction to Fashion

3c-01-3sh

A survey of aesthetic, cultural, sociopsychological, and economic factors related to the meaning and use of clothing for the individual and society. (Offered as CS216 prior to 1996-97)

## FSMR 112 Fundamentals of Clothing Construction

1c-31-3sh

Principles and techniques involved in fundamental clothing construction and fitting are analyzed. Directed laboratory experiences provide an opportunity to solve individual problems in garment structure through the application of principles. (Offered as CS112 prior to 1996-97)

## FSMR 212 Advanced Clothing Construction

1c-31-3sh

**Prerequisite:** FSMR 112 or placement (by exam)

Principles of advanced fitting and clothing construction are applied and analyzed. Offered even years, fall semester.

(Offered as CS212 prior to 1996-97)

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## FSMR 252 Aesthetics of Fashion

1c-01-3sh

**Prerequisite:** Sophomore standing

The study of contemporary apparel design and the relationship of design elements and principles to personal characteristics and social/professional orientation. (Offered as CS252 prior to 1996-97)

## **FSMR 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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## FSMR 303 Visual Merchandising

1c-3l-3sh

**Prerequisite:** ART 120 or equivalent

Designing and arranging of display and selling areas in relationship to merchandising trends and consumer demands. Emphasis will be on promotion techniques and merchandise sales through effective use of space, design, and color.

(Offered as CS303 prior to 1996-97)

#### **FSMR 314 Textiles**

2c-21-3sh

**Prerequisite:** CHEM 102

Analyses of textile components of fiber, yarn, fabrication, finishes, and color with emphasis upon consumer acquisition, use, and satisfaction. (Offered as CS314 prior to 1996-97)

## FSMR 350 Apparel Industry I

3c-01-3sh

**Prerequisites:** FSMR 110, completion of 57 semester hours

Introduces the student to the design, production, and distribution of apparel, including primary textile markets; women's, men's, and children's wear; accessories; fashion centers; retailers of fashion; apparel wholesale selling process; fashion store image; and future trends. (Offered as CS350 prior to 1996-97)

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## FSMR 357 Global Issues in Textiles and Apparel

3c-01-3sh

**Prerequisite:** ECON 121

The study of the global textiles and apparel industry with emphasis on the U.S. textile complex and the U.S. market within an international context.

## FSMR 385 Ready-to-Wear Analysis

1c-3l-3sh

Prerequisites: FSMR 112, 350

An examination and evaluation of the quality of ready-to-wear apparel through construction, style, fit, marketability, and price. (Offered as CS385 prior to 1996-97)

## **FSMR 433 Study Tour**

var-1-6sh

**Prerequisite:** Upper-level standing

Opportunity is provided to visit business establishments and cultural centers concerned with household equipment, furnishings, textiles, clothing, and housing in America as well as abroad. Museums, factories, designers' showrooms, distribution centers, stores, cultural events, and seminars are included. Course may be repeated for a total of 6sh. (Cross-listed as <u>CNSV/INDS 433.</u>)

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## FSMR 434 Quality Control in Textiles

2c-21-3sh

**Prerequisite:** FSMR 314

Physical properties explored through microscopic examination and use of textile testing equipment for fabric analysis. (Offered as CS434 prior to 1996-97)

## FSMR 450 Apparel Industry II

3c-01-3sh

**Prerequisites:** FSMR 350 and Liberal Studies math requirements

Introduces the student to the merchandising and promotion of apparel, including organization, buying responsibilities, techniques, and resources: various retail institutions, resident buying offices, apparel dollar planning and control,

apparel merchandise assortment planning, apparel buying practices, application of apparel planning and buying, and apparel advertising and promotion. (Offered as CS450 prior to 1996-97)

## FSMR 453 Flat Pattern Design

1c-31-3sh

Prerequisite: FSMR 112 or 212

Garment design achieved by use of flat pattern techniques. An understanding is developed of the interrelationship of garment design, figure analysis, fabric, fit, and construction processes. Offered even years, spring semester. (Offered as CS453 prior to 1996-97)

## **FSMR 456 Historic Costume**

3c-01-3sh

Chronological study of historic costume from ancient times to the present day with emphasis on the effect of aesthetic, economic, geographic, political, religious, and social factors upon the design of clothing worn. (Offered as CS456 prior to 1996-97)

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## **FSMR 457 Historic Textiles**

3c-01-3sh

**Prerequisite:** FSMR 314 or with permission

A study of the development of textiles in prehistoric, ancient, medieval, and modern history with special emphasis on Western European and American textiles.

## FSMR 480 Seminar in Fashion Merchandising

3c-01-3sh

**Prerequisite:** Senior standing

Knowledge gained in major and additional requirement courses is applied to individual career goals. Students have the opportunity to pursue related areas not directly covered in previous coursework, with emphasis upon independent research, analytical thinking, and communication skills.

## FSMR 481 Special Topics

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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## FSMR 482 Independent Study

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Particular consumer considerations are independently investigated in the area of housing, home equipment, interior design, clothing, and textiles, or in the management of resources. Course may be repeated for a total of 3sh. Students meet with a faculty member at least 5 hours per semester hour.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

## **Finance**

# **Department of Finance and Legal Studies Eberly College of Business**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

<u>FIN 220 FIN 281 FIN 310 FIN 320 FIN 322 FIN 324 FIN 355 FIN 385 FIN 410 FIN 420 FIN 422 FIN 424 FIN 481 FIN 482 FIN 493</u>

**Note:** All courses at the 300 and 400 level are open only to students with junior or senior standing. All students, regardless of major or program affiliation, must meet course prerequisite requirements in order to enroll for a given course. Business majors (except those majoring in Business Education) who have not achieved Junior Standing are normally not permitted to enroll in 300- or 400-level courses.

#### FIN 220 Essentials of Finance

3c-01-3sh

Provides students with a survey of three fundamental areas of finance: 1) Corporate Finance, 2) Basic Investment, and 3) Financial Intermediation and the Monetary System. Students will be introduced to financial analysis, planning, and control; to the management (the acquisition and allocation) of funds; and to the fundamentals of the time value of money and capital budgeting. Students will be familiarized with the basic investment markets, fundamental and technical analysis, and portfolio analysis. Students will also consider the influence of government and financial institutions on interest rates, sources of finance, investment of funds, and finance in general. (Offered for Associate Degree Program only; may not be used as a substitute for FIN 310)

## **FIN 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

## FIN 310 Finance I

3c-01-3sh

Prerequisites for business majors: ACCT 202, MATH 214

Prerequisites for non-business majors: ACCT 202, MATH 214 or 217 (MATH 214 recommended)

The study of the methods of securing and managing funds on short, intermediate, and long-term bases. The financial analysis, planning, and control of a corporation. Also covered is working capital management.

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## FIN 320 Finance II

3c-01-3sh

**Prerequisites:** FIN 310, upper division only

Continues FIN 310 and covers topics on long-term external financing of the firm, capital budgeting, valuation of the

firm, mergers, international business finance, and business failures.

#### **FIN 322 Life Insurance**

3c-01-3sh

**Prerequisite:** FIN 310

Comprehensive study of that insurance which provides protection against the economic loss caused by termination of earning capacity. Analysis benefits, underwriting, rate making, and legal doctrines.

## FIN 324 Principles of Investments

3c-01-3sh

**Prerequisite:** FIN 310

An analysis of various types of securities and other forms of investment possibilities and a study of sound investment policies from a corporate viewpoint. Factors influencing the general movement of security prices and the return from investments are considered.

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## FIN 355 Financial Analysis Using Lotus 1-2-3

3c-01-3sh

**Prerequisites:** BEDU/COSC/IFMG 101 and FIN 310

Develops the financial students' computer modeling and analysis skills. Students will be taught how to utilize current computing resources, electronic spreadsheet, and other computing software to analyze, model, and solve a variety of financial problems.

#### FIN 385 Securities and Commodities Markets

3c-01-3sh

Prerequisites: FIN 320, 324

The study of the structure of security and commodity markets; the nature of speculative transaction and methods of trading; analysis of pricing; and the objectives of security and commodity market regulation.

## **FIN 410 Financial Institutions and Markets**

3c-01-3sh

Prerequisite: FIN 324

Review of the entire structure of financial institutions, money, and capital markets, of which the business enterprise is both a supply and demand factor, and structure and dynamics of interest-rate movements.

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## FIN 420 Investment Analysis

3c-01-3sh

Prerequisites: FIN 320, 324

Integrates the work of the various courses in the finance areas and familiarizes the student with the tools and techniques of research in the different areas of investments.

#### **FIN 422 Seminar in Finance**

3c-01-3sh

**Prerequisites:** FIN 320, 324 seniors only

Primarily for the senior Finance major, covers topics in all areas of finance by using recent articles, cases, discussions, speakers, and a financial simulation game.

## **FIN 424 International Financial Management**

3c-01-4sh

**Prerequisite:** FIN 310

The financial management concepts, useful in a single-country context, are adapted for the international variables and constraints caused by being international. Provides an insight into unique issues and problems the manager of the

multinational enterprise will face, such as working capital management; capital budgeting process; financing and investing abroad; capital and money markets; foreign exchange markets; and risk management.

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## **FIN 481 Special Topics**

var-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are offered primarily for upper-level undergraduate students.

## FIN 482 Independent Study

var-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

## **FIN 493 Finance Internship**

var-3-12sh

**Prerequisites:** FIN 320, 324, consent of chairperson and dean

Practical experience in the finance field.

Note: Internship FIN 493 can be taken, if the student qualifies, as a general elective. It does not fulfill the major-area

elective requirement.

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## Fine Arts

## **College of Fine Arts**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

## FIAR 281 FIAR 481 FIAR 482 FIAR 493

## FIAR 281 Special Topics

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

## FIAR 481 Special Topics

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

## FIAR 482 Independent Study

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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## FIAR 493 Internship

var-3-12sh

Covers the areas of the visual and performing arts.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

## **Food and Nutrition**

# **Department of Food and Nutrition College of Health and Human Services**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

FDNT 110 FDNT 143 FDNT 145 FDNT 150 FDNT 151 FDNT 212 FDNT 213 FDNT 245 FDNT 281 FDNT 355 FDNT 357 FDNT 362 FDNT 364 FDNT 402 FDNT 410 FDNT 430 FDNT 444 FDNT 447 FDNT 455 FDNT 458 FDNT 461 FDNT 462 FDNT 463 FDNT 464 FDNT 470 FDNT 481 FDNT 482 FDNT 484 FDNT 493

## **FDNT 110 Careers in Food and Nutrition**

1c-0l-1sh

Career possibilities for nutrition majors are explored. Students will be guided in clarifying their professional goals and will become acquainted with the educational and experiential requirements necessary to attain these goals.

## **FDNT 143 Nutrition and Wellness**

3c-01-3sh

Introduces the student to the major components of wellness: contemporary nutrition issues as they relate to personal food choices, physical fitness, stress management, sexually transmitted diseases, AIDS, and substance abuse. Completion of FDNT 143 fulfills the Liberal Studies Health and Wellness requirement.

## **FDNT 145 Introduction to Nutrition**

3c-01-3sh

Provides students with an understanding of essential nutrients and their roles in the body, as well as the changing nutritional needs of an individual throughout the lifespan. Includes the impact of exercise and food choices on metabolism, body composition, and weight control; nutrition misinformation; consumer issues; commercially prepared foods; and major diseases that are affected by eating behaviors.

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## FDNT 150 Foods

3c-01-3sh

**Prerequisite:** CHEM 101 or 111

Corequisite: FDNT 151

Basic principles of food: composition, sanitation, preparation, and preservation.

## **FDNT 151 Foods Laboratory**

0c-31-1sh

**Prerequisite (or concurrently): FDNT 150** 

Application of basic principles of food preparation.

#### **FDNT 212 Nutrition**

3c-01-3sh

**Prerequisite:** CHEM 102 or 112

Sources and functions of nutrients, interdependence of dietary essentials, and nutritive value of an optimum diet are studied. Attention given to varied conditions in human life.

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#### **FDNT 213 Life Cycle Nutrition**

3c-01-3sh

**Prerequisite:** FDNT 212

A detailed study of nutrition which applies information from FDNT 212 to all stages of the life cycle; current issues and research as they impact on these developmental stages.

#### **FDNT 245 Sports Nutrition**

3c-01-3sh

Prerequisites: FDNT 145 or 212

Emphasizes knowledge and application of sports nutrition principles. The impact of the macro- and micro-nutrients on physical performance will be discussed in light of current scientific research and applied to realistic dietary recommendation for all types and levels of athletes.

#### **FDNT 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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#### FDNT 355 Nutrition in Disease I

3c-01-3sh

**Prerequisites:** <u>FDNT 212</u>, <u>BIOL 155</u> or <u>150/151</u>

Basic tools for diet modification: food exchange systems; interviewing techniques; nutrition assessment; professional practice; dietary treatment of caloric imbalance, diabetes, and cardiovascular disease. Fall Semester only.

#### **FDNT 357 Special Problems in Foods**

0c-41-3sh

**Prerequisite:** FDNT 150

Individual problems in foods investigated with emphasis on identified weaknesses in the student's knowledge of food.

#### **FDNT 362 Experimental Foods**

2c-31-3sh

Prerequisites: FDNT 150, FDNT 355 or concurrently, MATH 217

The experimental study of foods, relating chemical and physical properties to reactions and processes occurring in food systems.

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#### **FDNT 364 Methods of Teaching**

3c-01-3sh

**Prerequisites:** FDNT 213

Current teaching techniques and resource materials in nutrition education emphasized. Emphasis includes all forms of nutrition education, including classroom instruction, in-service training of employees, and community-based education.

#### **FDNT 402 Community Nutrition**

3c-01-3sh

#### **Prerequisite:** FDNT 212

Nutritional implications of both good and poor nutrition for all age groups in home and community situations are studied. Corrective and preventive measures emphasized. Spring semester.

#### FDNT 410 Food, Nutrition, and Aging

3c-01-3sh

**Prerequisite:** Junior status

Relationship of food to health maintenance and special dietary problems during the middle and later years.

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#### FDNT 430 Professional Topics in Food and Nutrition

3c-01-3sh

Prerequisites: FDNT 355, FDNT 364, HRIM 356, and PSYC 101

Topics include promoting food and nutrition services and programs, career planning and development, ethical challenges to dietitians, quality assurance standards, and impact on the legislative process.

#### FDNT 444 Food Composition and Biochemistry

3c-01-3sh

**Prerequisites:** CHEM 255

Basic chemistry and biochemistry of essential components of food originating from plant and animal sources.

#### FDNT 447 Nutritional Aspects of Food Technology

3c-01-3sh

**Prerequisites:** FDNT 212 and BIOL 232; junior status

A study of current known effects of food processing techniques on the nutritional value and safety of foods.

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#### FDNT 455 Nutrition in Disease II

3c-01-3sh

**Prerequisite: FDNT 355** 

Dietary treatment of disorders of the gastrointestinal, renal, cardiovascular, and hepatic systems; inborn errors of metabolism; allergies; cancer. Therapeutic quackery. Food sampling experiences. Spring semester only.

#### FDNT 458 Advanced Human Nutrition

3c-0l-3sh

Prerequisites: FDNT 355, CHEM 255 or CH351, MATH 217

In-depth study of the nutrients and their function within the cell. Incorporation of the principles of physiology and biochemistry in the study of nutrition. Emphasis placed on applying current research and evaluation of research methodology. (Does not count toward M.S. in Food and Nutrition degree requirements)

#### FDNT 461 Microwave Cooking Technology

2c-2l-3sh

The study of the electronic technology, selection, care, and use of the microwave oven. Basic physical and chemical concepts related to microwave cooking are included. Individual investigative research problems are required.

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#### FDNT 462 Advanced Experimental Foods

1c-4l-3sh

Prerequisites: FDNT 362, CHEM 231

An experimental approach to the many factors influencing the chemical and physical properties of food. Use of the scientific method in developing an individual project combining an evaluation of current literature and appropriate sensory and analytical methodology.

#### **FDNT 463 Nutrition Counseling**

2c-31-3sh

**Prerequisites:** FDNT 355, PSYC 101, FDNT 455 or concurrently

Use of intervention strategies in prevention and treatment of disease through diet. Supervised practicum (3 hours per week) counseling clientele in normal and therapeutic nutrition.

#### FDNT 464 Food and Nutrition Research Methods

3c-01-3sh

Prerequisites: FDNT 362, FDNT 458, CHEM 351, and MATH 217

An introduction to research methodology in foods and nutrition. Includes theory and techniques of physical, chemical, and instrumental analysis. Applications of these methods to food and animal models with statistical analysis of data.

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#### **FDNT 470 Human Food Consumption Patterns**

3c-01-3sh

Prerequisites: One social science course and junior standing

Exploration of human food consumption behaviors from food production to individual and societal consumption patterns. Influencing factors which will be discussed include agronomic, economic, geographic, sociologic, nutritional, political, and psychological factors. The ethics and morality of food distribution will be discussed. Students may not enroll in this course if they have taken the corresponding section of LBST 499.

#### **FDNT 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

#### FDNT 482 Independent Study

var-1-6sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office; must have earned 60 semester hours

Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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#### **FDNT 484 Senior Seminar**

1c-01-1sh

**Prerequisites:** Senior status, <u>FDNT 458</u>, 464 or concurrently

Emphasis will be on individual review of food and nutrition literature with formal presentation and discussion of current research.

#### FDNT 493 Internship

var-6-12sh

**Prerequisite:** Must have earned 57 semester hours

An opportunity for students to work away from the university in supervised job situations at health care facilities, restaurants, or other institutional food service or lodging establishments. Objective is to provide students with job-related experiences. Must meet university internship requirements.

**Note:** White uniforms including white shoes are required for all lab courses where food is prepared. Students must

meet the professional dress requirements of the department.

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# Study Abroad and Comparative Literature (Foreign Language)

#### **College of Humanities and Social Sciences**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

FNLG 100 FNLG 121 FNLG 391 FNLG 392 FNLG 393 FNLG 394 FNLG 395 FNLG 396 FNLG 421 FNLG 482

#### **FNLG 100 Study Abroad**

var-1-12sh

Registration mechanism and limited credit arrangement as provided in preapproval process for Study Abroad programs coordinated through the International Affairs Office.

#### **FNLG 121 Humanities Literature**

3c-01-3sh

Introduces the student to works, authors, and genres of general literary significance in the Western tradition. Not organized historically but trains the student in the critical reading and appreciation of literature from the present and other periods. Authors, works, and themes are studied with respect to cultural context, aesthetic form, and thematic significance. Taught in English. Substitutes for <u>ENGL 121</u>.

#### FNLG 391 Selected Works from the Medieval Period

3c-01-3sh

Prerequisites: ENGL/FNLG 121 or ENGL 122, ENGL 202

Comparative study of selected works of major importance per se and as representative of major themes of medieval European literature. Also listed as

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#### FNLG 392 Renaissance/Baroque/Classical

3c-0l-3sh

Prerequisites: ENGL/FNLG 121 or ENGL 122, ENGL 202

Literary works representing various genres from both periods are studied and compared for their themes, motifs, and stylistic features, applying principles set forth in H. Wolffin's *Renaissance and Baroque*.

#### **FNLG 393 Romanticism**

3c-01-3sh

Prerequisites: ENGL/FNLG 121 or ENGL 122, ENGL 202

The study of the principal authors and works of late eighteenth- and early nineteenth-century Europe and the unique national characteristics of the Romantic movement in lyric, drama, and prose. Also listed as <u>ENGL 393</u>.

#### FNLG 394 Nineteenth-Century European Novel in Translation

3c-01-3sh

Prerequisites: ENGL/FNLG 121 or ENGL 122, ENGL 202

A survey of major nineteenth-century European novels in translation (excluding English), emphasizing the rise of

realism and naturalism and the cultural, historical, social, and artistic relationships between the various national literatures. Also listed as ENGL 394.

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#### FNLG 395 Selected Writers from 20th-Century Europe

3c-0l-3sh

Prerequisites: ENGL/FNLG 121 or ENGL 122, ENGL 202

Comparative study of selected works of major importance per se or as representatives of major trends in twentieth-century literature. Also listed as <u>ENGL 395</u>.

#### **FNLG 396 The Literature of Emerging Nations**

3c-01-3sh

Prerequisites: ENGL/FNLG 121 or ENGL 122, ENGL 202

A comparative study of a selection of literature written in major European languages but originating in the nations of the developing world. Works will be mainly prose fiction (although essay, theater, and poetry may be included) and reflect a diversity of geographical, cultural, and prior colonial circumstances. Also listed as <u>ENGL 396</u>.

#### **FNLG 421 Language and Society**

3c-01-3sh

Considers salient facts of language and its role in society and culture. Language families, linguistic change, and reciprocal influences of culture and language are presented.

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#### **FNLG 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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# **Foundations of Education**

# **Department of Foundations of Education College of Education and Educational Technology**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

FDED 202 FDED 281 FDED 440 FDED 441 FDED 442 FDED 454 FDED 456 FDED 481 FDED 482

#### FDED 202 American Education in Theory and Practice

3c-01-3sh

**Prerequisites:** Students must have sophomore status and be enrolled in a teacher certification program Provides an introduction to some of the major traditional and contemporary philosophic concepts which have played a role in the formation of educational policies and practices. Emphasis will be on the relationship between educational theory and practice in such areas as the role of the school in society, curricular content, teaching and learning methodology, educational goals, and professionalism.

#### **FDED 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

#### FDED 440 Orientation to Teaching in Urban Centers

3c-01-3sh

Provides students with an understanding of learners and their unique learning needs and conditions. Emphasis will be on understanding the origin of attitudes and values and how these affect the relationships which exist between students and teachers. Special attention to practical application of theoretical information to problems of urban education. Field trips and guest speakers will be emphasized.

#### FDED 441 Field Experiences in Urban Centers

var-6sh

**Prerequisite:** FDED 440

Provides specialized experience for students desiring to teach in inner-city schools. Aspects to be emphasized include physical characteristics of community, background and aspirations of children and youth, and specialized teacher competencies, classroom management, planning, instructional materials, teaching strategies, and evaluations. Records of comprehensive experiences in urban areas will be considered in making field experience assignments. Schools selected for student experience will be located in Pittsburgh.

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#### Prerequisites: FDED 440, 441

Evaluation of learning and behavior problems encountered during field experience in urban schools. Flexible approach stressed to encourage wide range of investigation and exploration of psychological and sociological problems as they affect education. Supervision and guidance for investigating specific problems provided by specialists from psychology, sociology, and education who will function as resource personnel giving direction. Enables students to combine experiences gained by teaching in urban schools with recent and pertinent theoretical information.

#### **FDED 454 Public School Administration**

3c-01-3sh

The study of the development of public school administration; current organizational patterns for public education at the local, county, state, and national levels; and the impact of administration upon the total educational program.

#### FDED 456 Issues and Trends in Education

3c-01-3sh

Critical analysis of issues and trends in education with emphasis on philosophical and social dimensions of topics covered. Attention to work of some major contemporary critics of education.

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#### **FDED 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

#### FDED 482 Independent Study

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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# French

# **Department of French and German College of Humanities and Social Sciences**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

FRNC 101 FRNC 201 FRNC 202 FRNC 203 FRNC 253 FRNC 254 FRNC 281 FRNC 301 FRNC 331 FRNC 341 FRNC 353 FRNC 361 FRNC 370 FRNC 373 FRNC 375 FRNC 376 FRNC 390 FRNC 431 FRNC 432 FRNC 441 FRNC 460 FRNC 463 FRNC 462 FRNC 481 FRNC 482 FRNC 493

#### FRNC 101 Basic French

4c-01-4sh

For the student beginning the study of French or who needs remedial study before beginning the intermediate sequence. Primary emphasis is on the mastery of French pronunciation and oral communication. Students will learn to converse in simple present time and become acquainted with location of Francophone populations and elements of their daily lives. Attendance and Foreign Language Learning Center practice is required.

### FRNC 201 College French I

3c-01-3sh

The initiation of college-level mastery of basic language skills and exposure to cultural materials. Supplements beginners' oral competency with more advanced reading and writing. Emphasis will be on narration in the past. Efforts are made to practice skills and comprehend texts in authentic cultural contexts. Liberal Studies elective credit is given for this course.

#### FRNC 202 College French II

3c-01-3sh

Prerequisite: FRNC 201 or equivalent

Continues the college-level mastery of language skills. The ability to narrate present and past is intended to express opinion and hypothesis. Emphasis is on acquiring greater skill in reading literary and cultural texts. Liberal Studies elective credit is given for this course.

#### FRNC 203 Accelerated College French

6c-0l-6sh

Develops listening and speaking skills through an immersion method. Students use present, past, and future to indicative tenses in intensive aural/oral interaction and are expected to make use of the audio and video capabilities of the Foreign Language Learning Center on a weekly basis. Liberal Studies elective credit is given for this course.

#### FRNC 253 Intermediate Composition and Conversation

3c-01-3sh

Intermediate course in grammar, reading, composition, and some oral work. Can substitute for or be in addition to FRNC 202 for majors or serious students.

#### FRNC 254 Civilization of Modern France

3c-01-3sh

#### Prerequisite: FRNC 202 or equivalent

A study of modern French culture and civilization—social institutions, government, industry, economics, and geography. Development of all language skills for use in business situation in French-speaking environment. Emphasis will be on acquisition of an active knowledge of the business world.

#### **FRNC 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

#### FRNC 301 Portraits of Women in the French Novel

3c-01-3sh

Explores the polarity of the treatment of female characters in the French novel. Explores differences of treatment by male and female writers through inclusion of women novelists. Provides a chronological survey of the development of the novel in France from the seventeenth to the twentieth centuries.

#### FRNC 331 Intermediate French Conversation

3c-01-3sh

**Prerequisite:** FRNC 202

Emphasis will be placed on development of communication skills, vocabulary, and discourse strategies. Activities include directed conversations, video- and audio-based listening comprehension, and role play and other simulations.

#### FRNC 341 French Grammar

3c-01-3sh

**Prerequisite:** FRNC 202

Students will review and refine their knowledge of French grammatical structure, including question formation, description, comparison, and present and past narration. Emphasis is placed on written expression.

#### FRNC 353 Intermediate French Composition

3c-01-3sh

**Prerequisite:** FRNC 202

Includes intensive practice in written expression in French. Emphasis is placed on the development of communicative skills as well as knowledge of French structure. Taught in French.

#### FRNC 354 Business French

3c-01-3sh

**Prerequisite:** FRNC 254 or permission of instructor

The study of principles and practices of business communication in French secretarial and administrative procedures with an emphasis on the planning and writing of business letters, reports, and abstracts of articles in business and economics.

#### FRNC 370 Introduction to French Literature

3c-01-3sh

**Prerequisite:** FRNC 341 or FRNC 353

Designed to develop students' French reading skills, to provide tools for literary interpretation of texts, and to introduce major literary works of France and the French-speaking world.

#### FRNC 373 French Civilization

3c-01-3sh

Prerequisite: FRNC 202

Covers the historical development of French high culture exclusive of literary genres (i.e., prose, poetry, theater). Presents an overview of political and intellectual history, music, art, and architecture. Certain content areas will

receive special emphasis at the instructor's discretion.

#### FRNC 375 French Literature from Medieval through 17th Century

3c-01-3sh

**Prerequisite:** FRNC 370

Introduces students to the major developments in French literature and thought from the Medieval through the seventeenth century. Includes an overview of major French literary genres: novel, poetry, and theater. Readings and discussion are in French.

#### FRNC 376 French Literature from 18th through 20th Century

3c-01-3sh

**Prerequisite:** FRNC 370

Introduces students to major developments in French literature and thought from the eighteenth century to the present. Includes an overview of major French literary genres: novel, poetry, and theater. Readings and discussion will be in French.

#### FRNC 390 Teaching Elementary School Content in French and German

3c-01-3sh

**Prerequisite:** Permission of the instructor

Students will explore issues relevant to the teaching and learning of French and German in the elementary school (grades K-8). Current theories of child second-language acquisition will be treated. These theoretical foundations will form the basis for the development of objectives and activities which integrate the teaching of foreign language and culture with elementary school subject content. Students will gain practical experience in planning and implementing lessons, assessing student learning, and selecting materials appropriate to the needs and interests of young learners.

#### FRNC 431 Advanced French Conversation

3c-01-3sh

**Prerequisite:** FRNC 331

Builds on the communication skills acquired in FRNC 331. Focuses on the development of advanced vocabulary and discourse strategies. Activities will include in-depth discussion and debate of current events and real-life problems.

#### FRNC 432 French Phonetics and Phonology

3c-01-3sh

**Prerequisite:** FRNC 331 or equivalent

Presents an introduction to the sound system of French and provides training in standard French pronunciation. Basic issues on phonological theory and description will be examined. Students will refine their own pronunciation of French through classroom practice, oral presentations, and tape recordings.

#### FRNC 441 Advanced French Grammar

3c-01-3sh

**Prerequisite:** FRNC 341

Students will build upon their previous knowledge of French grammar, with a view to perfecting their control of more complex structures. These structures include complex sentences, the subjunctive, hypothetical statements, and passive voice. Emphasis is placed on written expression.

#### FRNC 460 Studies in French Literature

3c-01-3sh

**Prerequisite:** FRNC 375 or FRNC 376

Provides a flexibly designed syllabus permitting instructors and students to explore areas of special interest in French literature and culture. Content will vary according to the instructor's desired focus for a given semester. Will be conducted in French or English at the instructor's discretion.

#### FRNC 462 Studies in French Language and Linguistics

3c-01-3sh

**Prerequisite:** FRNC 353 or equivalent

Students will explore some topic relevant to French language and linguistics. Possible topics include: French around the world, history of the French language, French applied linguistics. (Total pages read in French for the course should be more than 150.)

#### FRNC 463 Studies in French Culture and Civilization

3c-01-3sh

**Prerequisite:** FRNC 353

Aspects of current French culture and civilization will be explored and assessed particularly in relation to French governmental and cultural institutions.

#### **FRNC 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times.

#### FRNC 482 Independent Study

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources. An opportunity to engage in an in-depth analysis of some topic dealing with the French language and culture through consultation with a faculty member.

#### FRNC 493 Internship

var-3-12sh

**Prerequisite:** One semester of study in France

A supervised field experience in France with approved public agencies and institutions or private firms; no longer than one semester and no less than one month. Positions will be matched as closely as possible with the intern's personal interests and professional goals. For more information, contact the director of the Internship Abroad Program.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# Geography

# **Department of Geography and Regional Planning College of Humanities and Social Sciences**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

GEOG 101 GEOG 102 GEOG 104 GEOG 213 GEOG 230 GEOG 231 GEOG 241 GEOG 251 GEOG 252 GEOG 253 GEOG 254 GEOG 255 GEOG 256 GEOG 257 GEOG 281 GEOG 313 GEOG 314 GEOG 316 GEOG 331 GEOG 332 GEOG 333 GEOG 334 GEOG 335 GEOG 336 GEOG 337 GEOG 341 GEOG 342 GEOG 343 GEOG 352 GEOG 371 GEOG 411 GEOG 412 GEOG 415 GEOG 417 GEOG 431 GEOG 432 GEOG 440 GEOG 464 GEOG 481 GEOG 482 GEOG 493 GEOG 499

#### GEOG 101 Introduction to Geography: Human Environment

3c-01-3sh

Throughout history, human life and society have been shaped by the physical environment. Today, human activity threatens that environment. The relationship between humans and environment is examined in the context of the surface processes of weather, climate, plate tectonics, population distribution, and soil formation. Topics include agriculture, acid rain, global warming, deforestation, desertification, erosion, volcanism, and pollution.

#### **GEOG 102 Geography of United States and Canada**

3c-01-3sh

The cultural landscape of North America is studied. The relationship between man and environment is examined and spatial patterns of environment, economy, society, and politics are considered.

#### GEOG 104 Geography of the Non-Western World

3c-01-3sh

Relates theories of the discipline of geography to problems in the developing world. Emphasizes geographic components of dependency theory, indigenous versus industrial strategies of resource management; world systems theory, spatial legacies of colonialism; and development economics, theories of migration, and urban structure to explore causes, characteristics, and consequences of underdevelopment.

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#### GEOG 213 Cartography I

3c-01-3sh

Introduces students to principles of thematic map construction. Emphasis is on the techniques of choropleth mapping and the production of scientific graphs and charts. (Also offered as RGPL 213; may not be taken for duplicate credit)

#### **GEOG 230 Cultural Geography**

3c-01-3sh

An introduction to cultural geography, including population, settlement, historical, urban, and political geography, human relationships with the natural environment, and the literature and methods of cultural geography.

#### **GEOG 231 Economic Geography**

3c-01-3sh

An introduction to geographic concepts, methods, and skills related to spatial patterns of production, consumption, and exchange over the earth's surface.

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#### **GEOG 241 Physical Geography**

3c-01-3sh

An introduction to physical geography including the study of weather, climate, soils, vegetation, landforms, energy cycles, and the hydrologic cycle.

#### GEOG 251 Geography of Pennsylvania

3c-01-3sh

Regions of Pennsylvania are examined in detail to identify man-environment relationships. Soils, topography, climate, vegetation, population, and economic patterns are studied.

#### **GEOG 252 Geography of Latin America**

3c-01-3sh

Impact of rapid population growth and economic development on the environment and spatial organization of Latin America are considered. The resource base and cultural heritage of the region are studied.

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#### GEOG 253 Geography of Europe

3c-01-3sh

Investigates relationships underlying land use, dominant international problems, boundary disputes, and regional complexes of the European continent.

#### GEOG 254 Geography of Russia and the Soviet Sphere

3c-01-3sh

Examines the Russian Republic and the former Soviet empire including the new nations emerging from the U.S.S.R. and former satellite nations. Settlement patterns, economics, cultures, and physical environments are studied. Contemporary topical emphasis is placed on efforts at transformation from communist to market economics and the geo-political status of the new nations. (Offered as Geography of U.S.S.R. prior to 1995-96)

#### **GEOG 255 Geography of Africa**

3c-01-3sh

Systematic survey of the physical, economic, political-historical, and cultural geography of the continent is followed by regional studies of countries and peoples in Africa, south of the Sahara.

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#### **GEOG 256 Geography of East Asia**

3c-01-3sh

Studies China, Japan, Korea, Outer Mongolia, Taiwan. Geographic background for development and wise use and restoration of natural resources are dealt with.

#### GEOG 257 Geography of South and Southeast Asia

3c-01-3sh

India, Pakistan, Bangladesh, Sri Lanka, Burma, Thailand, Laos, Cambodia, Vietnam, Malaysia, and Indonesia are studied with special attention to regional similarities and differences, particularly as they pertain to human adjustment.

#### **GEOG 281 Special Topics**

3c-01-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students. (May also be offered as RGPL 281; may not be taken as duplicate credit under same title)

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#### **GEOG 313 Cartography II**

3c-01-3sh

**Prerequisite:** GEOG 213

Gives an understanding of the compilation and use of maps and quantitative data. Develops skills essential to the construction of various types of maps. (Also offered as RGPL 313; may not be taken for duplicate credit)

#### **GEOG 314 Map and Photograph Interpretation**

3c-01-3sh

Maps and air photographs, along with remote sensing materials, permit inventory, and analysis of geologic, land use, urban development, and other landscape phenomena. The understanding of these materials and associated tools for their use is presented. (Also offered as RGPL 314; may not be taken for duplicate credit)

#### **GEOG 316 Introduction to Geographic Information Systems**

3c-01-3sh

**Prerequisites:** GEOG 213, or equivalent, or permission of instructor

Automated methods for creating, maintaining, and analyzing spatial data are presented. Topics include 1) specialized GIS hardware and software, 2) vector vs. raster vs. object-oriented spatial data structures, 3) creation and manipulation of geographic data files, 4) database design and management concepts, 5) spatial analysis, and 6) cartographic design. (Also offered as RGPL 316; may not be taken for duplicate credit) (Offered as GE416: Computer-Assisted Cartography prior to 1995-96)

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#### **GEOG 331 Population Geography**

3c-01-3sh

Spatial variations in numbers, characteristics, and dynamics of human population, models, and theoretical constructs relevant to demographic structures and processes are studied, as well as major world and regional problems.

#### **GEOG 332 Urban Geography**

3c-01-3sh

Basic concepts of urban geography including site, situation, function, urban land use, urban structure, and urban hierarchy are introduced. Relationships between urban geography and urban planning are explored. (Also offered as RGPL 332; may not be taken for duplicate credit)

#### **GEOG 333 Trade and Transportation**

3c-01-3sh

Deals with the spatial aspects of transportation systems and their use. Circulation, accessibility, time and distance concepts, and trade patterns are discussed. (Also offered as RGPL 333; may not be taken for duplicate credit)

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#### **GEOG 334 Political Geography**

3c-01-3sh

Geographic factors and conditions are analyzed as they relate to the character and function of states. Political institutions are evaluated in light of geographic conditions.

#### **GEOG 335 Geography of Energy**

3c-01-3sh

Covers patterns and problems of energy production and consumption in human societies. Descriptions of what, where, and how much are combined with issues such as technological change, conservation, allocation, environment impacts, and economic development. Specific topics include global history and trends of energy development, pricing systems, types of energy, locations of production areas, and the energy status of the United States.

#### **GEOG 336 Social Geography**

3c-01-3sh

Spatial dimensions of the American society are the focus of this course. The distribution of various social groups and their impact on the landscape are considered.

#### **GEOG 337 Historical Geography**

3c-01-3sh

Studies of past geographies, geographical change through time, and historical perspectives on the cultural landscape are included. Historical geography of the United States is emphasized.

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#### **GEOG 341 Climatology**

3c-01-3sh

Examines the elements of weather and climate on Earth. The location and causes of global climatic regions are examined in relation to moving pressure and wind systems. Also considers the climatic history of the planet and recent human modifications of the atmospheric environment.

#### **GEOG 342 Physiography**

3c-01-3sh

Focuses on landform types and their spatial distribution. Emphasis is placed on the tectonic forces that build landforms and the weathering and erosional processes that erode and shape surface features. The relationship between human activities and landforms is also considered.

#### **GEOG 343 Geography of Fresh Water Resources**

3c-01-3sh

Learn about surface and groundwater as a resource with unique properties. Fresh water is defined physically by storage in the hydrologic cycle and the values assigned by different cultures. Problems featured relate to consumptive and withdrawal water uses, the problems of water supply and scarcity, water law and its inconsistencies, flooding and floodplain management, sources of contamination and pollution, wetlands, and case studies of selected river basins. (Offered as GE340 prior to 1998-99)

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#### **GEOG 352 Planning Methods**

3c-01-3sh

**Prerequisite:** RGPL 350 or permission of instructor

Research, analytical design, and plan-making techniques in urban and regional planning. Examines basic items

necessary to prepare urban and regional comprehensive plans. (Also offered as <u>RP352</u>; may not be taken for duplicate credit) (Offered as GE361: Planning: Basic Studies and Analysis prior to 1996-97)

#### **GEOG 371 Aerospace Workshop**

3c-01-3sh

Develops an appreciation and provides information related to aerospace activities and contributions; offers background for teaching aerospace courses; discusses aviation/space careers; and presents the basic principles of flying (usually including some flight instruction). Offered summer only.

#### **GEOG 411 History of Geography**

3c-01-3sh

**Prerequisites:** <u>GEOG 213, 230, 231, 241, and 341 or 342</u>

Course dealing with history of the discipline, great ideas, leading problems, and unresolved issues.

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#### **GEOG 412 Research Seminar**

3c-01-3sh

**Prerequisite:** GEOG 411

This senior seminar and workshop is a capstone course that focuses on recent research in the major field. Students carry out a research project on a topic of local or regional importance. (Also offered as RGPL 412; may not be taken for duplicate credit) (Offered as GE312: Research in Geography and Planning prior to 1996-97)

#### **GEOG 415 Remote Sensing**

3c-01-3sh

Deals with air photographs, satellite imagery, thermal sensing, and radar imagery and their application to deriving information about the earth's physical and cultural landscapes. (Also offered as RGPL 415; may not be taken for duplicate credit)

#### **GEOG 417 Technical Issues in GIS**

3c-01-3sh

**Prerequisites:** GE316

A project-based class in which students learn the skills to develop and maintain a Geographic Information System. Through cooperative learning students will design and implement functional systems. Methods for designing GIS systems to user specification, data collection, data input, project management, and system documentation are covered. (Also offered as RGPL 417; may not be taken for duplicate credit)

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#### **GEOG 431 Geography of American Indians**

3c-01-3sh

Focuses on the historical/cultural geography of Native Americans. Population, resources, land use, development, settlement patterns, and other selected topics are covered.

#### **GEOG 432 Geography of Crime**

3c-01-3sh

The geographical context of crime is examined from historical and contemporary viewpoints. Relevant concepts and analytical approaches are introduced.

#### **GEOG 440 Conservation: Environmental Analysis**

3c-01-3sh

Problems of exploitation and utilization of regional resources such as soils, minerals, forests, and wildlife are

considered in relation to population growth and regional planning and development.

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#### **GEOG 464 Land Use Policy**

3c-01-3sh

Introduces students to and provides an overview of land use issues at the regional, state, and federal levels. Emphasis is placed upon the evolution of contemporary policy strategies, constitutional issues, and regional controversies involved in the regulation of metropolitan growth, central city decline, and management of public lands. (Also offered as RGPL 464; may not be taken for duplicate credit)

#### **GEOG 481 Special Topics**

3c-01-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students. (May also be offered as RGPL 481; may not be taken for duplicate credit under same title)

#### **GEOG 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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#### **GEOG 493 Internship**

var-3-12sh

Professional learning experience with emphasis on application of academic background. Open to majors and minors in geography with a total of 57sh and 15sh in the major. See internship supervisor for additional information.

#### **GEOG 499 Independent Study**

var-3-6sh

Independent research and study under faculty direction. Interested students should approach department chairperson for information.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# Geoscience

#### **Department of Geoscience**

**College of Natural Sciences and Mathematics** 

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

GEOS 101 GEOS 102 GEOS 103 GEOS 104 GEOS 105 GEOS 106 GEOS 111 GEOS 112 GEOS 113 GEOS 114 GEOS 121 GEOS 122 GEOS 131 GEOS 132 GEOS 141 GEOS 150 GEOS 151 GEOS 221 GEOS 281 GEOS 310 GEOS 321 GEOS 322 GEOS 325 GEOS 326 GEOS 327 GEOS 330 GEOS 331 GEOS 332 GEOS 336 GEOS 337 GEOS 338 GEOS 341 GEOS 342 GEOS 350 GEOS 361 GEOS 362 GEOS 371 GEOS 380 GEOS 411 GEOS 412 GEOS 440 GEOS 441 GEOS 480 GEOS 481 GEOS 482 GEOS 493

#### **GEOS 101 The Dynamic Earth**

3c-01-3sh

**Prerequisite:** No Geoscience majors/minors

Examines the constant changes that affect the rocky surface of our planet. From volcanic eruptions and catastrophic earthquakes to the slow drift of continents and passage of ice ages, earth processes have shaped the history of life and altered the development of human civilization.

#### **GEOS 102 The Dynamic Earth Lab**

0c-21-1sh

**Prerequisite:** No Geoscience majors/minors **Corequisite:** Enrollment in GEOS 101

Introduces students to the techniques geologists use to study the earth and reconstruct its past. Labs cover minerals, rocks, map interpretation, fossil identification. Includes field trips during the scheduled lab period.

#### **GEOS 103 Oceans and Atmospheres**

3c-01-3sh

**Prerequisite:** No Geoscience majors/minors

The earth's oceans and atmosphere play a crucial role in determining the pace and extent of changes occurring to our global environment. Examines the composition and character of these components and their interaction with other major components of the earth system.

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#### **GEOS 104 Oceans and Atmospheres Lab**

0c-21-1sh

**Prerequisite:** No Geoscience majors/minors **Corequisite:** Enrollment in GEOS 103

Introduces students to the techniques oceanographers and meteorologists use to study the earth's oceans and atmospheres and reconstruct their evolution. Labs cover seawater processes, oceanic circulation, marine life, atmospheric structure, and weather.

#### **GEOS 105 Exploring the Universe**

3c-01-3sh

#### **Prerequisite:** No Geoscience majors/minors

Examines the history of time, the reasons for the seasons, the characteristics of the planets, moons, stars, and galaxies, and the history and future of space exploration.

#### **GEOS 106 Exploring the Universe Lab**

0c-21-1sh

**Prerequisite:** No Geoscience majors/minors **Corequisite:** Enrollment in <u>GEOS 105</u>

Introduces students to the techniques astronomers use to study the celestial sphere. Constellations, seasons, motions of Sun, Moon, planets, and stars, characteristics of stars and galaxies. Includes two observations which will be held at night.

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#### **GEOS 111 Earth Science for Educators I**

3c-01-3sh

Prerequisite: Natural Science/Science Education majors only

An in-depth treatment of introductory oceanography and geology designed specifically for Secondary Science Education majors. Focuses on fundamentals of the earth's physical processes and history and on the ocean's dynamics, chemistry, and tectonics.

#### **GEOS 112 Earth Science for Educators I Lab**

0c-31-1sh

**Prerequisite:** Natural Science/Science Education majors only

**Corequisite:** Enrollment in GEOS 111

Lab experiences in various aspects of oceanography and geology, designed to provide concepts and skills for future teaching to Secondary Education majors. Includes field trip(s).

#### **GEOS 113 Earth Science for Educators II**

3c-01-3sh

**Prerequisite:** Natural Science/Science Education majors only

An in-depth treatment of introductory meteorology and astronomy designed specifically for Secondary Science Education majors. Focuses on atmospheric processes and climate change and on the earth's place in the solar system and universe.

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#### **GEOS 114 Earth Science for Educators II Lab**

0c-31-1sh

**Prerequisite:** Natural Science/Science Education majors only

**Corequisite:** Enrollment in GEOS 113

Use of the weather station and planetarium highlights a series of exercises designed to aid Secondary Science Education majors in developing concepts and laboratory skills for future teaching.

#### **GEOS 121 Physical Geology**

3c-01-3sh

**Prerequisites:** Geoscience majors/minors, any Science or Science Education majors/minors; Anthropology, Geography/Regional Planning majors, or permission of instructor

An introduction to the science of the earth, including physical properties of its interior and crust; its tectonic and surface processes; and the complex geologic interactions which shape and modify our planet. Designed to prepare students for upper-level geology classes.

#### **GEOS 122 Physical Geology Laboratory**

0c-3l-1sh

Prerequisites: Geoscience majors/minors, any Science or Science Education majors/minors; Anthropology,

Geography/Regional Planning majors, or permission of instructor

**Corequisite:** Enrollment in GEOS 121

Selected problems in rock and mineral identification, topographic and geologic mapping techniques, geologic landforms and deformation structures. Designed to prepare students for upper-level geology classes. Includes field trips.

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#### **GEOS 131 Historical Geology**

3c-01-3sh

Prerequisites: Geoscience majors/minors, any Science or Science Education majors/minors; Anthropology,

Geography/Regional Planning majors, or permission of instructor

An introduction to history of the earth, including the fossil record and the history of biologic evolution; the growth and tectonic interactions of oceans and continents; and the physical evolution of the earth's atmosphere, lithosphere, and hydrosphere. Designed to prepare students for upper-level geology classes.

#### **GEOS 132 Historical Geology Laboratory**

0c-31-1sh

Prerequisites: GEOS 121/122, Geoscience majors/minors, any Science or Science Education majors/minors;

Anthropology, Geography/Regional Planning majors, or permission of instructor

**Corequisite:** Enrollment in GEOS 131

Selected problems in stratigraphic analysis, paleontology, and structural geology; designed to prepare students for upper-level geology classes. Includes field trips.

#### **GEOS 141 Introduction to Ocean Science**

3c-01-3sh

An introduction to physical, chemical, biological, and geological processes in oceanography and the interactions among them. Impact of exploitation of the oceans, coastal areas, marine, physical, and living resources on the environment and on humankind. Includes field trips which may involve a fee and may occur on weekends.

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#### **GEOS 150 Geology of National Parks**

3c-01-3sh

A study of geological processes and earth history as documented by the classical geological features of U.S. and Canadian national parks. Includes Badlands, Glacier, Grand Canyon, Great Smokies, Gros Morne, Mammoth Cave, Yellowstone, Yosemite, and others. Not open to Geoscience majors or minors.

#### **GEOS 151 The Age of Dinosaurs**

3c-01-3sh

A thorough introduction to dinosaurs and the world they inhabited. Topics include the most current theories regarding dinosaurian biology (behavior, metabolism, evolution), ecology (greenhouse climate, associated plants and animals), and extinction (asteroid impact, volcanism, climate change). Not open to Geoscience majors and minors.

#### **GEOS 221 Physical Resources of the Earth**

3c-01-3sh

An introduction to mineral, energy, and water resources of the earth; genesis of ore depositions; exploration, exploitation, and utilization of resources; impact of exploitation of resources on the environment and on humankind. Includes field trips which may occur on weekends.

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#### **GEOS 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

#### **GEOS 310 Environmental Geology**

2c-31-3sh

**Prerequisite:** 8sh in geology or permission

The application of geologic information to the accommodation and reduction of natural hazards, to land-use planning, and to the utilization of earth materials. Includes field trips which occur on weekends.

#### **GEOS 321 Mineralogy**

2c-3l-3sh

**Prerequisite:** GEOS 121 or CHEM 111

Concerned with properties of minerals; introduction to crystallography and chemistry of crystals, followed by a determination of minerals and their probable genesis. Includes field trips which may occur on weekends.

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#### **GEOS 322 Igneous and Metamorphic Petrology**

2c-3l-3sh

**Prerequisite:** GEOS 321

Concerned with a description of igneous and metamorphic rock character based upon mineral components and physical relationship between mineral components of a rock. Includes field trips which may occur on weekends.

#### **GEOS 325 Structural Geology**

2c-31-3sh

**Prerequisites:** GEOS 131 and 132/133 or permission of instructor

The study of primary structures, contacts, rock mechanics, joints, faults, folds, foliation, and lineation. Includes work with geologic maps and structure sections. Brunton compass, orthographic and stereographic projections. Includes field trips which may occur on weekends.

#### **GEOS 326 Field Geology**

2c-31-3sh

**Prerequisite:** GEOS 325

Principles and techniques of field geology with emphasis on developing field skills using Brunton compass, aerial photographs, topographic maps, altimeter, Jacob staff, and rock color charts. Field projects involve techniques of field note-taking, measuring and describing stratigraphic sections, geologic field mapping and analysis, construction of geologic maps and structure sections, and report writing. Includes field trips which may occur on weekends.

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#### **GEOS 327 Geomorphology**

2c-31-3sh

Prerequisites: GEOS 121, 131

A study of the origin of the earth's land forms, including relationship of geologic structure to landform types and role of geomorphic processes in landscape development.

#### **GEOS 330 Paleontology**

2c-3l-3sh

Prerequisite: GEOS 131 or permission of instructor

The study of the morphology, evolution, geologic significance, and paleoecology of fossil organisms. Includes field trips which may occur on weekends.

#### **GEOS 331 Hydrogeology**

2c-31-3sh

**Prerequisites:** MATH 121-122, GEOS 121-122/123, or permission

An overview of groundwater geology, including flow equations, graphical solutions to flow problems, and computer modeling of flow systems, as well as the geotechnical and social implications of groundwater utilization. Includes field trips which occur on weekends.

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#### **GEOS 332 Geochemistry**

2c-31-3sh

Prerequisite: CHEM 111-112, GEOS 121-122/123, or permission

An introduction to low-temperature chemistry of the earth's surface and near-surface; includes discussions of chemical activity, solution chemistry, organic geochemistry, trace elements, isotopes, and the chemistry of natural waters.

#### **GEOS 336 Geology of the Northern Rockies**

var-3sh

Prerequisite: Permission of instructor required; at least 14sh of GEOS courses recommended

A field study of the major geologic features and relationships involved in the development of the northern Rocky Mountains. National Park and Monument areas of South Dakota, Wyoming, and Montana are included among the areas investigated. (three weeks, summer only)

#### **GEOS 337 Geology of Newfoundland**

var-3sh

**Prerequisite:** Permission of instructor required; at least 14sh of GEOS courses recommended

A field course designed to utilize the exceptional and diverse geologic features of Newfoundland for instruction of departmental majors and minors in tectonic analysis utilizing sedimentologic, stratigraphic, and paleontologic observations. (three weeks, summer only)

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#### **GEOS 338 Geology of the American Southwest**

var-3sh

**Prerequisite:** Permission of instructor required; at least 14sh of GEOS courses recommended

A field study of the major geologic features and relationships exposed in the American Southwest, including the Colorado Plateau, the Rio Grande Rift, Death Valley, and parts of the Southern Rocky Mountains. (3 weeks, summer only)

#### **GEOS 341 Solar System**

2c-31-3sh

**Prerequisites:** MATH 121 and PHYS 111

Fundamentals of astronomy, with emphasis on observational methods, mechanics, and origin of the solar system and spatial relationship of the solar system to the other members of the universe.

#### **GEOS 342 Stellar Astronomy**

2c-31-3sh

**Prerequisites:** MATH 121 and PHYS 111

Fundamentals of astronomy, with emphasis on sun, stars, galaxies, the sidereal universe, and use of spectroscopy for gathering astronomical data.

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#### **GEOS 350 Operation of the Planetarium**

var-1sh

**Prerequisites:** GEOS 110, <u>341</u>, <u>342</u>, or permission of instructor

Designed to acquaint the student with methods of operation and repair of a Spitz A-3-P planetarium. Content includes topics suitable for lectures to various age groups. Student will write and present a demonstration program. Meets once a week with occasional evening observations.

#### **GEOS 361 Physical Oceanography**

2c-31-3sh

**Prerequisites:** MATH 121 and PHYS 111 or permission of instructor

An introduction to physical, chemical, geological, and biological nature of ocean: topography, submarine geology, and bottom deposits. Includes field trip(s) which may occur on weekend(s).

#### **GEOS 362 Plate Tectonics**

2c-31-3sh

**Prerequisites:** PHYS 111-112 and a minimum of 20sh of geology

An introduction to formal theory of plate tectonics. Topics include magnetic anomalies, first motion studies, thermal structures of the plates, kinematics, crustal generation, sea floor spreading, collision, and subduction deformation.

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#### **GEOS 371 Meteorology I**

2c-31-3sh

**Prerequisite:** One year of physical science or physics

An introduction to meteorological sciences; composition and structure of the atmosphere; radiation principles; elementary thermodynamics and heat balance.

#### **GEOS 380 Research Techniques in Geoscience**

2c-01-2sh

**Prerequisite:** Second-semester junior standing (75 credits or permission of instructor)

For students majoring in some aspect of geoscience. Teaches students the techniques of geoscience research: defining a project; doing background research; proposing multiple working hypotheses and collecting evidence pertaining to each. Students will then write up their research in both abstract and professional manuscript format. Cannot be taken subsequent to GEOS 480.

#### **GEOS 411 Sedimentary Petrology**

2c-31-3sh

**Prerequisite:** GEOS 321 or permission of instructor

The study of sediments and sedimentary rocks with emphasis on interpreting ancient environments of deposition utilizing sieve analysis, hand lens, and petrographic microscope. Includes field trips which may occur on weekends.

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#### **GEOS 412 Stratigraphy**

2c-31-3sh

**Prerequisite:** GEOS 411 or permission of instructor

Principles and processes involved in development and description of stratified rock sequences, principles and problems of correlation, and selected stratigraphic problems. Includes field trips which may occur on weekends.

#### **GEOS 440 Subsurface Geology**

2c-3l-3sh

**Prerequisite:** Minimum 20 credit hours of geology

An introduction to the geology of petroleum, its origin, migration, entrapment, and production. Lab is designed to provide practical experience in subsurface mapping techniques and the use and evaluation of geophysical logging devices. Includes field trips which may occur on weekends.

#### **GEOS 441 Carbonate Geology-Florida**

var-3sh

Prerequisite: 17sh geology courses or written permission of instructor

Two to three weeks of field study in Florida Keys. Course will be conducted from base camp in Florida Keys and will consist of both land and water work as the different carbonate environments in the Keys, Florida Bay, and the Atlantic reef tract are studied.

#### **GEOS 480 Geoscience Seminar**

var-1sh

**Prerequisites:** <u>GEOS 380</u>, senior standing

For seniors majoring in some aspect of geoscience. The seminar (1) provides the student with an opportunity to prepare, formally present, and defend a scientific paper based either on his/her own research or on a topic chosen with the approval of instructor and (2) provides opportunity to discuss topics presented by other students, faculty, or guests.

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#### **GEOS 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

It is the department's intention to use this course to schedule extended field trips and for teaching special courses which will utilize the specialties of the Geoscience faculty.

#### **GEOS 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Independent study provides the student with an opportunity to use library, laboratory, or field research in an area which is of interest under the supervision of a designated faculty member. Approval is based on academic appropriateness and availability of resources.

#### **GEOS 493 Geoscience Internship**

var-1-12sh

Summer or semester work experience with cooperating firms or agencies. May be scheduled only after consultation with advisor and chairperson. Requirements include up to three on-site consultations, depending on credit hours and location's site; completion of up to three oral progress reports; and submission of a detailed work diary. Restricted to junior and senior department majors; only 3sh may be applied toward major.

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# German

#### **Department of German**

**College of Humanities and Social Sciences** 

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

GRMN 101 GRMN 151 GRMN 152 GRMN 201 GRMN 221 GRMN 222 GRMN 251 GRMN 252 GRMN 253 GRMN 254 GRMN 256 GRMN 281 GRMN 321 GRMN 322 GRMN 351 GRMN 352 GRMN 361 GRMN 362 GRMN 363 GRMN 364 GRMN 367 GRMN 368 GRMN 369 GRMN 370 GRMN 371 GRMN 381 GRMN 390 GRMN 410 GRMN 481 GRMN 482 GRMN 493

#### **GRMN 101 Elementary German**

var 6sh

Students complete levels I and II sequence in one semester (6sh). Emphasis will be on mastery of spoken language as well as basic language skills. Classes meet M,W,F for 60 minutes and T,R for 90 minutes.

#### GRMN 151 German I

3c-01-3sh

For beginners, the objectives include grammar, pronunciation, reading, speaking, and writing.

#### **GRMN 152 German II**

3c-01-3sh

For students who have had German I or its equivalent, the objectives are to enhance and develop the four skills of listening, speaking, reading, and writing.

#### **GRMN 201 Intermediate German**

var 6sh

Students complete levels III and IV sequence in one semester (6sh). Students develop language skills with emphasis on oral competency. Classes meet M,W,F for 60 minutes and T,R for 90 minutes.

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#### **GRMN 221 Conversation III**

2c-01-2sh

Two-hours-weekly conversation practice in small groups emphasizing the use of greetings, idiomatic expressions, and communication skills to improve vocabulary and pronunciation.

#### **GRMN 222 Conversation IV**

2c-01-2sh

Two hours of weekly conversation designed as a continuation of the practice in small groups, focusing on speaking and listening skills and on participation in discussions and dialogues. May enroll without having taken GRMN 221.

#### **GRMN 251 German III**

3c-01-3sh

Continued training in basic skills, with the possible addition of the study of specific topics; consult the department for topics of interest.

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#### **GRMN 252 German IV**

3c-01-3sh

A continuation of German III with some emphasis on literary works.

#### **GRMN 253 Intermediate Composition and Conversation**

3c-01-3sh

Can be taken instead of or in addition to 252. Designed for majors or serious students. Offered in spring only.

#### **GRMN 254 Business German**

3c-01-3sh

**Prerequisite:** GRMN 251 or equivalent

A one-semester course which can be taken instead of, or in addition to, GRMN 252 by students interested in business or as part of the Liberal Studies requirement (equivalent to German IV). Business practices and specialized business vocabulary, letter writing, and problems of translation are emphasized.

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#### **GRMN 256 Scientific German**

3c-01-3sh

Designed to substitute for GRMN 252, course will be offered in the second semester. Primarily for science majors; it may be taken as an elective by German majors.

#### **GRMN 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

#### GRMN 321-322 Advanced Conversation I and II

each 2c-0l-1sh

Designed to increase speaking ability. The variety of content permits repetitions of these relatively informal courses.

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#### GRMN 351 Advanced German Language I

3c-01-3ch

Aims to review and expand the student's grammatical skills, to apply these skills to extensive cultural and short literary readings, and to produce frequent themes on these readings.

#### **GRMN 352 Advanced German Language II**

3c-01-3sh

Continues to expand the student's grammatical skills and to apply them by the writing of longer themes based on

cultural and literary readings.

#### GRMN 361 Development of German Culture and Literature I

3c-01-3sh

Designed to provide a background in German literature, music, art, architecture, and history. Surveys the period from the migrations of the Germanic tribes to the rise of Prussia as a European power.

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#### GRMN 362 Development of German Culture and Literature II

3c-01-3sh

A continuation of GRMN 361. Covers the period from the French Revolution and its effects on Germany up to the present, with an emphasis on German literature, history, and music.

#### GRMN 363 Introduction to German Literature I

3c-01-3sh

Selected readings in German poetry to acquaint the student with formal and thematic aspects of German verse from the Middle Ages to the present.

#### GRMN 364 Introduction to German Literature II

3c-01-3sh

Selected readings in German fiction and drama to acquaint the student with representative works and techniques of interpretation.

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#### **GRMN 367 Nineteenth-Century German Literature**

3c-01-3sh

A survey of the major works of German poetry and prose with an emphasis on the literary movements of Romanticism, Realism, and Naturalism.

#### **GRMN 368 Twentieth-Century German Literature**

3c-01-3sh

A study of representative works of German poetry and prose from Expressionism through World War II.

#### **GRMN 369 Contemporary German Literature**

3c-0l-3sh

A study of the literary achievement of postwar Germany up to the present.

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#### GRMN 370 The Age of Goethe I

3c-01-3sh

A study of representative works from the Enlightenment and Storm and Stress periods.

#### GRMN 371 The Age of Goethe II

3c-01-3sh

A study of selected works of German Classicism with an emphasis on the prose and poetry of the first decades of the nineteenth century.

#### **GRMN 381 German Drama in English Translation**

3c-01-3sh

Representative works of major dramatists in English translation. Primarily intended for students of English literature and comparative literature and not considered as credit toward a German major.

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#### GRMN 390 Teaching Elementary School Content in French and German

3c-01-3sh

**Prerequisite:** Permission of the instructor

Students will explore issues relevant to the teaching and learning of French and German in the elementary school (grades K-8). Current theories of child second-language acquisition will be treated. These theoretical foundations will form the basis for the development of objectives and activities which integrate the teaching of foreign language and culture with elementary school subject content. Students will gain practical experience in planning and implementing lessons, assessing student learning, and selecting materials appropriate to the needs and interests of young learners.

#### GRMN 410 History of the German Language

3c-01-3sh

History and development of German language, with special emphasis on relationships with English. Analysis of annals in Gothic, Old High German, and Middle High German using methods of historical and contemporary linguistics.

#### **GRMN 481 Special Topic**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students. Designed to meet the special needs of a student group.

#### **GRMN 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office An opportunity to engage in an in-depth analysis of some topic dealing with the German language and culture through consultation with a faculty member.

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#### **GRMN 493 Internship in Germany**

var-3-12sh

**Prerequisites:** 12sh in 300- or 400-level courses and a minimum of one semester study in Germany A supervised field experience in Germany with approved public agencies and institutions or private firms; no longer than one semester and no less than one month. Positions will be matched as closely as possible with the intern's personal interests and degree of proficiency in the German language. Academic work at the Gesamthochschule in Duisburg must precede the internship. Open to students in other disciplines, such as Political Science, International Relations, Business, etc., with advisor approval.

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# Gerontology

# **Department of Nursing and Allied Health Professions College of Health and Human Services**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

#### GERN 281 GERN 481 GERN 482 GERN 493

#### **GERN 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

#### **GERN 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content.

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

### **GERN 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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#### **GERN 493 Internship**

3sh

**Prerequisites:** Senior standing, all required courses

Supervised experience in public or private agency that serves aging clients.

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# Greek

# **Department of Spanish and Classical Languages College of Humanities and Social Sciences**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

#### GREK 151 GREK 152 GREK 251 GREK 252 GREK 351 GREK 352 GREK 482

#### GREK 151 Greek I

3c-01-3sh

For beginning students; pronunciation, reading, oral, and written communication are the objectives. In grammar the case system of the Greek noun is begun. All classical Greek courses are offered occasionally through Independent Study; Modern Greek may be available through the Critical Languages program. Offered only by individualized instruction.

#### GREK 152 Greek II

3c-01-3sh

A continuation of Greek I. In grammar the case system of the Greek noun is completed. Offered only by individualized instruction.

#### **GREK 251 Greek III**

3c-01-3sh

Continued training in basic skills, with the possible addition of the study of specific topics; consult the department for topics of interest. In grammar most tenses of the Greek verb are studied. Offered only by individualized instruction.

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#### **GREK 252 Greek IV**

3c-01-3sh

A continuation of Greek III. In grammar more tenses of the verb are studied. The readings become short selections from Greek literature. Offered only by individualized instruction.

#### GREK 351 Advanced Greek Language I

3c-01-3sh

Reviews grammar in depth; analyzes the structure of the language. While themes are not required, selections from Greek prose are read both for knowledge of their content and for developing knowledge of the structure of the language. Offered only by individualized instruction.

#### **GREK 352 Advanced Greek Language II**

3c-01-3sh

Continuation of <u>GREK 351</u>. Selections are from poetry this semester. Offered only by individualized instruction.

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#### **GREK 482 Independent Study**

var-3sh

An opportunity to engage in an in-depth analysis of some topics dealing with the Greek language and culture through consultation with a faculty member. Permission required.

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# **Health and Physical Education**

#### Department of Health and Physical Education College of Health and Human Services

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

HPED 117 HPED 119 HPED 124 HPED 127 HPED 128 HPED 142 HPED 143 HPED 145 HPED 160 HPED 162 HPED 165 HPED 166 HPED 175 HPED 200 HPED 210 HPED 211 HPED 212 HPED 213 HPED 221 HPED 230 HPED 242 HPED 251 HPED 252 HPED 261 HPED 263 HPED 264 HPED 270 HPED 271 HPED 272 HPED 273 HPED 274 HPED 276 HPED 279 HPED 280 HPED 281 HPED 315 HPED 318 HPED 319 HPED 321 HPED 325 HPED 333 HPED 335 HPED 341 HPED 343 HPED 344 HPED 345 HPED 346 HPED 350 HPED 353 HPED 354 HPED 365 HPED 372 HPED 375 HPED 376 HPED 377 HPED 408 HPED 410 HPED 411 HPED 412 HPED 413 HPED 426 HPED 430 HPED 441 HPED 442 HPED 446 HPED 447 HPED 448 HPED 450 HPED 477 HPED 481 HPED 482 HPED 485 HPED 493

#### **HPED 117 Fitness-Swimming**

0c-21-1sh

Fundamentals and techniques of swimming and fitness.

#### **HPED 119 Golf-Bowling**

0c-21-1sh

Fundamentals and techniques of golf and bowling.

#### **HPED 124 Fitness Through Dance**

0c-21-1sh

A physical fitness development course for men and women that employs a combination of exercises and dance techniques performed to music.

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#### **HPED 127 Fencing**

0c-21-1sh

Fundamentals and techniques of fencing.

#### **HPED 128 Golf**

0c-21-1sh

Fundamentals and techniques of golf.

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#### HPED 142 Foundations of Health, Physical Education, and Sport

3c-01-3st

Historical, philosophical, and psychosocial foundations of health and physical education are introduced. Specific

emphasis is given to scientific theories and principles in such areas as health promotion and behavioral change, exercise physiology, motor development, kinesiology, and motor learning.

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#### **HPED 143 Health and Wellness**

3c-01-3sh

Introduces the student to the major components of wellness: contemporary nutrition issues as they relate to personal food choices, physical fitness, stress management, sexually transmitted diseases, AIDS, and substance abuse. Completion of HPED 143 fulfills the Liberal Studies Health and Wellness requirement.

#### **HPED 145 Tennis**

0c-21-1sh

Fundamentals and techniques of tennis.

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#### **HPED 160 Downhill Skiing**

1sh

The cognitives and skills necessary for beginning downhill skiing.

#### **HPED 162 Scuba Diving**

0c-21-1sh

Designed to teach necessary skills and proper use of equipment for underwater swimming. Tanks, regulators, weights, and special equipment furnished. Student must purchase a mask, fins, and snorkel (approximately \$15). Includes theory as well as practical work.

#### **HPED 165 Lifeguarding**

0c-21-1sh

**Prerequisites:** Departmental consent and Advanced Swimmer

Designed for professional lifeguards. Includes lifeguarding techniques for pools and fresh and saltwater beaches. Red Cross certification (Pittsburgh Division) granted upon satisfactory completion of course requirements.

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#### **HPED 166 Basic Smallcraft**

0c-21-1sh

**Prerequisite:** Intermediate swimming ability

Designed to introduce the use of the canoe, paddle board, and sailboat. Emphasis is placed on the development of boating skills, safety rescue, and survival procedures. Red Cross smallcraft certification is granted upon successful completion of the course.

#### **HPED 175 Prevention and Care of Injuries to the Physically Active**

 $2c_{-}01_{-}2sh$ 

General information will be presented related to the prevention, recognition, and care of both acute and chronic injuries common to participants of physical activity/fitness, and athletics. Specific topics to be addressed include prevention techniques, the classification and staging of injury conditions, basic evaluation techniques, as well as emergency management and follow-up care procedures.

#### **HPED 200 Fundamentals of Physical Activity**

1c-2l-1sh

A foundation course designed for the purpose of training in the analysis and performance of the fundamental skills for subsequent motor behavior as they relate to games, sports, and dance. The opportunity to refine powers of observation through principles of efficient and effective movement fundamentals is provided. Individual data profile charts of performance will be completed for future reference.

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#### **HPED 210 Motor Development**

2c-01-2sh

Corequisite: <u>HPED 200</u>

A study of the processes of growth and development and their effects upon human motor behavior across the lifespan. Includes changes during physical growth, maturation and aging, and subsequent effects upon cognitive, perceptual, and physiological performance, both individually and within a sociocultural context.

#### HPED 211 Dance, Rhythmic Activities, and Gymnastics

2c-41-3sh

**Prerequisite:** HPED 200

Designed to provide an aesthetic and kinesthetic movement experience which will prepare the student as a teacher of basic movement in a variety of situations. The dance section will include creative movement, rhythms, and square, folk, and contemporary dance. Gymnastics will include basic tumbling, stunts, and apparatus skills.

#### **HPED 212 Team Sports**

2c-41-3sh

**Prerequisite:** <u>HPED 200</u>

Introduces students to the history, current status, and teaching similarities among team sports. Also includes materials and methods unique to each sport.

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#### HPED 213 Individual and Dual Sports and Adventure Activities

2c-41-3sh

**Prerequisite:** HPED 200

Provides historical and current status of individual and dual sports, as well as adventure activities. Includes skill development, analysis of skilled performance, and strategies for planning and implementing instructional programs.

#### **HPED 221 Human Structure and Function**

3c-01-3sh

Anatomical organization of the human body, surveyed in sufficient depth to prepare students for physiology, biomechanics, and adaptive physical education.

#### **HPED 230 Aerobic Fitness**

1c-2l-2sh

An opportunity to participate in a variety of aerobic activities; will aid fitness leaders in developing and implementing several types of aerobic programs; will offer current information on aerobics as preventive medicine.

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#### **HPED 242 Emergency Health Care**

1c-2l-1sh

American Red Cross Standard, Advanced, and Instructor's certification and Multimedia Instructor's certification awarded upon successful completion of this course.

#### **HPED 251 Foundations of Safety and Emergency Health Care**

3c-01-3sh

Focuses on accident prevention, injury control, and first responder's skills. Emphasizes identification of causes of accidents, recommended countermeasures, and mitigation. American Red Cross certifications are issued in (1) standard first aid, (2) community CPR, (3) instructor of standard first aid, and (4) instructor of community CPR.

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#### **HPED 252 Introduction to the Driving Task**

2c-21-3sh

Provides an in-depth treatment of operating a motor vehicle competently in all major variations and under most conditions encountered in traffic. A competent operator is one who performs the total driving task knowledgeably and skillfully and demonstrates full understanding and application of identification, prediction, decision, and execution process.

#### **HPED 261 Water Safety Instructor**

0c-21-1sh

**Prerequisites:** Departmental consent and lifesaving certification

Emphasizes the teaching aspect of skills, techniques, and attitudes necessary in all areas of swimming. Students successfully completing course are qualified to hold such positions as waterfront directors, aquatic directors, and other similar positions.

#### **HPED 263 Aquatics**

0c-21-1sh

Basic performance techniques in swimming strokes presented with special emphasis on teaching methodology, aquatic sports and games, water safety, skin diving, springboard diving, and other aquatic activities.

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#### **HPED 264 Advanced Aquatics**

0c-2l-1sh

Swimming and rescue skills necessary to complete American Red Cross Senior Lifesaving Course. Emphasis placed upon a broad range of other aquatic experiences and teaching strategies.

#### **HPED 270 Instructor of Handicapped Swimming**

0c-21-1sh

**Prerequisite:** <u>HPED 261</u>

Concerned with the learning of skills used to teach swimming to exceptional children. All handicaps are considered. Important not only in physical education but also for the mentally retarded, rehabilitation education, agency personnel, postgraduate swimming education, YMCA Boys Clubs, community programs, private clubs, and industrial programs. The Red Cross certification Instructor of Swimming for the Handicapped is granted upon successful completion of the course. Summer only.

#### **HPED 271 Instructor of Scuba Diving**

0c-21-1sh

**Prerequisite:** HPED 262

Prepares instructors to teach skin and scuba diving. Emphasis is placed on teaching methods, use and mechanics of equipment, safety, diving physics and physiology, and advanced diving skills. Instructor of Scuba Diving certificate granted by the Professional Association of Diving Instructors upon successful completion of the course. Summer only.

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# **HPED 272 Instructor of Canoeing**

0c-21-1sh

**Prerequisite:** HPED 266

Concerned with the learning of skills pertinent to teaching canoeing to beginners. All aspects of canoeing including paddling, repair of equipment, white water canoeing, safety, survival, and teaching techniques are presented. The Red Cross certification Canoeing Instructor is granted upon successful completion of the course. Summer only.

#### **HPED 273 Instructor of Sailing**

0c-21-1sh

**Prerequisite:** HPED 266

Concerned with learning of skills pertinent to teaching beginning sailing. All aspects of sailing are considered, including the elements of sailing, repair of equipment, racing, safety, and techniques of teaching. Summer only.

# **HPED 274 Instructor of Infants and Preschoolers in Swimming**

0c-21-1sh

**Prerequisites:** <u>HPED 261</u>, instructor's consent

Methods course for preparation of swimming instructors in the knowledge and skills of teaching young children to swim. YMCA certification Instructor of the Very Young granted upon successful completion of course requirements. Summer only.

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#### **HPED 276 Coaching of Swimming**

0c-21-1sh

**Prerequisite:** HPED 261

A lecture-discussion methods course designed to prepare Health and Physical Education majors for coaching of swimming. Emphasis is placed on training methods, officiating, nutrition, scientific principles, and meet strategy. Summer only.

# **HPED 279 Swimming Pool Maintenance and Chemistry**

21-01-2sh

Prerequisite: <u>HPED 264</u>

A lecture-discussion course designed to teach fundamental water chemistry, filtration, treatment of water problems, winterization of outdoor pools, and pool management. Emphasis is placed on water testing and analysis of chemicals and bacteria. Summer only.

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# **HPED 280 Aquatic Facilities Management**

21-01-2sh

**Prerequisite:** HPED 264

An organizational and administrative course designed to prepare the aquatic professional for management of indoor and outdoor facilities. Includes facility design, safety procedures activity, and sport and recreational aspects. Summer only.

# **HPED 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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#### **HPED 315 Biomechanics**

3c-01-3sh

**Prerequisite:** <u>HPED 221</u>

A study of the relationship between mechanical and physical principles and human movement. (Offered as HP246 prior to 1998-99)

# **HPED 318 Preprofessional Experience I**

3c-01-1sh

**Recommended Prerequisite:** <u>HPED 321</u> **Prerequisite:** Physical Education majors only

Students teach as assistants to a faculty member in two different activities, one in physical education (general education) and one in elementary physical education at the University School. Emphasis will be on unit development, class management, leadership skills, and evaluation.

# **HPED 319 Preprofessional Experience II**

var-3sh

**Prerequisites:** Advanced standing, departmental approval

Students may request an assisting/teaching/leadership assignment in certain university-related areas that may be either instructional or noninstructional in nature. Examples of such professional areas are adaptives, recreation, dance, coaching, aquatics, intramurals, administration, elementary, service or major classes, club activities, and assisting in laboratory or the training room.

# **HPED 321 Methods in Elementary Health and Physical Education**

3c-0l-3sh

**Prerequisite:** Junior standing

Guides the professional student in the development of competencies essential to teaching health and physical education at the elementary school level. Includes theories of instruction in health science, necessity of a safe and healthful school environment, and judicious utilization of school and community health resources and service, as well as study of theories of and movement relevant to elementary school children. Observation, materials, methods of teaching, and opportunities for intern teaching provided.

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# **HPED 325 School and Community Health**

3c-01-3sh

Prerequisite: Junior standing

Introduces students to the role of school and community in protecting and promoting the health of its members. Topics include historical development of the concepts of health and health education, identification of national and community goals to reduce risk of disease and enhance health status, and the responsibilities of both school and community toward achieving these goals.

#### **HPED 333 Psychology of Coaching**

2c-01-2sh

The goals of athletics in schools and communities; principles and responsibilities of the coach; current problems.

# **HPED 335 Coaching and Managing of Athletic Programs**

3c-01-3sh

Lecture course designed to prepare students for coaching or administering an athletic program. Emphasizes the professional preparation and responsibilities of a coach, the support and auxiliary personnel working under and with the coach, and the coach's responsibility to the athletes, plus the administrative responsibilities of coaching.

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# **HPED 341 Evaluation in Health and Physical Education**

3c-01-3sh

**Prerequisite:** Junior standing

Evaluation theory, instructional objectives, and cognitive test construction; technical and practical considerations in testing and interpretation of test results in both health and physical education.

#### **HPED 343 Physiology of Exercise**

3c-01-3sh

**Prerequisite:** HPED 221

Physiological effects of exercise in humans. Major factors of diet, conditioning, physical fitness, maximum performance level, and fatigue are considered.

# **HPED 344 Adapted Physical Education**

3c-01-3sh

**Prerequisite:** HPED 246

Recognition of structural deviations, corrective exercises, and physical education programs for a wide range of handicaps.

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# **HPED 345 Athletic Training**

3c-01-3sh

**Prerequisite:** <u>HPED 221</u> or equivalent applied anatomy course

A survey of common athletic injuries with emphasis on etiology, pathophysiology, and classification. General injury assessment and management procedures will also be presented.

#### **HPED 346 Athletic Training Lab**

0c-21-1sh

Corequisite: HPED 345

Designed to develop basic athletic training skills for the beginning and intermediate athletic training student. Emphasis will be directed towards athletic taping and wrapping, contemporary immobilization and ambulation devices, protective sports equipment, and transportation and transfer of the injured athlete.

#### **HPED 350 Health Aspects of Aging**

3c-01-3sh

**Prerequisites:** PSYC 101, SOC 151, and junior standing

Current theory and research related to gerontology will be introduced to increase students understanding of the physical and psychosocial dimensions of aging. Additionally, this course will emphasize lifestyle factors and disease prevention aspects of aging. Recommended for students who plan to work with older adults.

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# **HPED 353 Driver Education Program Management**

3c-01-3sh

Emphasizes the development, organization, and management of high school driver education from the standpoint of its historical development to its present programs designed to meet the demands of the highway transportation system. Special emphasis on the role of the teacher in conducting a high-quality program that will meet with student, parent, school, and community approval.

# **HPED 354 Application of Driver Education Instructional Modes**

2c-21-3sh

**Prerequisites:** <u>HPED 251</u>, <u>252</u>, <u>353</u>

Prepares prospective driver education teachers to plan, teach, and evaluate the four modes of driver education (classroom, on-road, simulation, and multiple-vehicle range). Teaching high school students in supervised laboratory sessions is provided.

# **HPED 365 Advanced Athletic Training**

3c-21-4sh

Prerequisites: <u>HPED 345</u>, <u>346</u>

Designed to teach assessment procedures, evaluation methods, and proper athletic training protocol for neuromuscular and skeletal muscle injuries. In addition, administrative issues in athletic training will be addressed emphasizing accurate medical documentation. Emphasis will be placed on subjective and objective assessment and documentation of findings.

# **HPED 372 Health and Physical Education for Special Populations**

2c-01-2sh

**Prerequisite:** EDEX 112; junior level or above

Methods and techniques of teaching health and physical education to special populations will be explored. Designed primarily for students majoring in special education, the course will focus on handicapping conditions, limitations imposed by such conditions, and the responsibility of the special education teacher working in the physical education setting.

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# **HPED 375 Physiological Basis of Strength Training**

3c-01-3sh

Designed to give the student the anatomical and physiological basis of muscle function. Students should also gain an understanding of changes that can be made through weight training and knowledge of programs that will bring about these changes. Opportunities for working with various types of equipment will be available.

#### **HPED 376 Athletic Training Clinical Practicum I**

0c-21-1sh

**Prerequisites:** HPED 251, 345, 346

Provides the opportunity to develop and demonstrate proficient psychomotor skills within the domains of athletic injury prevention and acute care, in coordination with a one-semester clinical field experience. This clinical field experience will allow each student an opportunity to practice and apply skills taught within this course under the direction of a clinical instructor within the IUP Athletic Department or an affiliated clinical site. Specific skills emphasized include, but are not limited to, those relating to safety/risk management, conditioning, equipment fitting, taping and wrapping, acute care, and transportation/transfer of the injured athlete. Restricted to students seeking certification by the National Athletic Trainers Association.

#### **HPED 377 Athletic Training Clinical Practicum II**

0c-21-1sh

**Prerequisites:** HPED 365

Provides the opportunity to develop and demonstrate proficient psychomotor skills within the domain of athletic injury assessment, in coordination with a one-semester clinical field experience. This clinical field experience will allow each student an opportunity to practice and apply skills taught within this course under the direction of a clinical instructor within the IUP Athletic Department or an affiliated clinical site. Specific skills emphasized include, but are not limited to, those relating to anatomical landmarks' identification, orthopedic and neurological evaluation, and general medical examination. Restricted to students seeking certification by the National Athletic Trainers Association.

#### **HPED 408 Guided Research Problem**

var-2sh

# **Prerequisite:** Permission of department chairperson

Selection and research of a problem pertinent to student interests and those of the professions of health, physical education, and recreation. Classes held on a seminar basis.

#### **HPED 410 Exercise Prescription**

3c-0l-3sh

**Prerequisite:** <u>HPED 343</u>

Designed to teach individuals to write exercise prescriptions based upon a subject's tolerance for physical activity. Special emphasis on risk factors, techniques of evaluation, drugs, injuries, environmental factors, and motivation and their role in physical activity assessment.

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#### **HPED 411 Physical Fitness Appraisal**

3c-01-3sh

Involves the selection, administration, and interpretation of various tests for appraising the physical fitness levels of individuals. Information given concerning the various fitness components, and discussions held so that each student gains an understanding of the variables to be tested.

#### **HPED 412 Physical Activity and Stress Management**

3c-01-3sh

Acquisition of necessary understanding of anxiety and stress; their nature, place in society, and intervention strategies as they relate to physical activity.

# **HPED 413 Physical Activity and Aging**

3c-01-3sh

Presents major aspects of physical activity, its importance to the older adult, and the organization of an activity program. Attention to physiology of physical activity, effects of activity on growth and aging, exercise prescription, flexibility, overweight and obesity, and motivational strategies.

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# **HPED 426 Health Science Instruction**

3c-01-3sh

Health curriculum—K-12, methods and media of instruction in health science.

#### **HPED 430 The American Woman and Sport**

3c-01-3sh

Comprehensive, multidisciplinary analysis of the problems, patterns, and processes associated with the sport involvement of girls and women in our culture. Presents historical perspective with an emphasis on physiological, psychological, and sociocultural influences.

# **HPED 441 Psychosocial Implications for Health and Physical Education**

3c-01-3sh

**Prerequisite:** Senior standing

A study of psychological and sociological influences, both theoretical and empirical, and their effects upon health and physical performance.

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#### HPED 442 Seminar in Health, Physical Education, and Recreation I

3c-01-3sh

Theory and philosophy of health, physical education, and recreation; current issues and problems; innovative and creative programs.

#### **HPED 446 Therapeutic Modalities**

3c-21-4sh

**Prerequisite:** HPED 365

A basic introduction to the use of therapeutic modalities and the role they play in the rehabilitation of athletic injuries. Physical agents used in the care of athletic injuries will be presented highlighting the physiological effects of each modality, as well as indications and contraindications for their use.

# **HPED 447 Cardiopulmonary Resuscitation (CPR) Instructor**

1c-11-1sh

**Prerequisite:** Basic CPR certification

A study of methods and skills necessary to certify instructors of cardiopulmonary resuscitation and multimedia first aid. Successful completion of requirements leads to certification by the American Health Association and the American Red Cross. Summer only.

#### **HPED 448 Therapeutic Exercises for Athletic Injury Management**

3c-21-4sh

**Prerequisite:** HPED 365

The theoretical framework for athletic injury assessment and management of the injured athlete is discussed. A problem-solving approach to the selection and implementation of specific tests and therapeutic interventions is utilized. An overview of therapeutic management as well as the development of skill in basic therapeutic exercise procedures for improving muscle performance, relaxation, and mobilization is included.

# **HPED 450 Curriculum and Programming in Sexuality Education**

3c-01-3sh

Topics include anatomy and physiology of the human reproductive tracts, development, birth defects, contraception, venereal disease, and abortion. Not for credit toward degrees in Biology.

# **HPED 476 Athletic Training Clinical Practicum III**

0c-21-1sh

**Prerequisite:** HPED 365

Provides the opportunity to develop and demonstrate proficient psychomotor skills within the domains of athletic training organization/administration and education/guidance, in coordination with a one-semester clinical field experience. This clinical field experience will allow each student an opportunity to practice and apply skills taught within this course under the direction of a clinical instructor within the IUP Athletic Department or an affiliated clinical site. Specific skills emphasized include, but are not limited to, those relating to communication, record keeping, planning, budgeting and purchasing, facility design, policies/procedures, and other athletic health care managerial/administrative duties. Athletic training instruction and guidance skills will also be addressed. Restricted to students seeking certification by the National Athletic Trainers Association.

#### **HPED 477 Athletic Training Clinical Practicum IV**

0c-21-1sh

**Prerequisites:** HPED 446, 448

Provides the opportunity to develop and demonstrate proficient psychomotor skills within the domain of athletic injury rehabilitation, in coordination with a one-semester clinical field experience. This clinical field experience will allow each student an opportunity to practice and apply skills taught within this course under the direction of a clinical instructor within the IUP Athletic Department or an affiliated clinical site. Specific skills emphasized include, but are

not limited to, exercise, manual therapy, and other advanced musculoskeletal screening and therapeutic intervention techniques. Restricted to students seeking certification by the National Athletic Trainers Association.

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# **HPED 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

# **HPED 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

# **HPED 485 Student Assistance Program Training**

3c-01-3sh

**Prerequisites:** Junior standing and EDSP 202

Introduces the student to the concept of Student Assistance Programs (SAP) in schools. Includes the history of SAP, current involvement in public education, and the educator's role as an SAP member. Provides an experiential basis for preparation to assume the role of an SAP member. Note: Majors in the B.S.Ed.-Health and Physical Education program will have first opportunity to enroll in class; any openings in the class will then be offered to Elementary and Secondary Education majors.

# **HPED 493 Internship**

var-3-12sh

Educational opportunity which integrates classroom experience with practical experience in community service agencies or industrial, business, or governmental organizations. Junior standing required.

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# **History**

# **Department of History College of Humanities and Social Sciences**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

HIST 195 HIST 200 HIST 201 HIST 202 HIST 203 HIST 210 HIST 212 HIST 214 HIST 281 HIST 301 HIST 302 HIST 303 HIST 304 HIST 305 HIST 306 HIST 307 HIST 308 HIST 311 HIST 320 HIST 321 HIST 322 HIST 324 HIST 325 HIST 326 HIST 327 HIST 330 HIST 331 HIST 335 HIST 340 HIST 341 HIST 342 HIST 343 HIST 344 HIST 345 HIST 346 HIST 350 HIST 351 HIST 355 HIST 356 HIST 360 HIST 361 HIST 362 HIST 363 HIST 364 HIST 365 HIST 366 HIST 367 HIST 369 HIST 370 HIST 372 HIST 373 HIST 374 HIST 390 HIST 391 HIST 480 HIST 481 HIST 482 HIST 483 HIST 487 HIST 493

### **HIST 195 The Modern Era**

3c-01-3sh

Interprets the development of two centers of civilization, Europe and America, within a global context and extends from at least the Age of Enlightenment through the present. (History majors should substitute HIST 202 for HIST 195 to meet the Liberal Studies humanities requirements.)

#### **HIST 200 Introduction to History**

3c-01-3sh

For History majors and concentrates. Topics include philosophy of history, important schools of history and historians, and methods of historical research. Student is encouraged to become a better historian and to identify with historical profession. For History majors only.

#### **HIST 201 Western Civilization Before 1600**

3c-01-3sh

A survey course presenting in various forms the origin and development of major political, social, religious, and intellectual institutions in Western Civilization to approximately 1600. For History majors or by instructor's permission.

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#### **HIST 202 Western Civilization Since 1600**

3c-01-3sh

Development of Western civilization from the expansion of Europe to the present, including political, diplomatic, economic, social, and cultural areas. Introduces issues and interpretations encountered in upper-level courses. For History majors or by instructor's permission.

#### **HIST 203 United States History for Historians**

3c-01-3sh

Introduces aspiring historians to United States history since 1763. Emphasizes the issues, methods, and problems that currently concern professional historians. For History majors or by instructor's permission.

#### HIST 210 Ancient Civilization: The Middle East and the Eastern Mediterranean

3c-01-3sh

**Note:** Not open to History and Secondary Social Science Education majors.

An examination of the development and the spread of ancient civilization in ancient Middle East and the Eastern Mediterranean. Topics of study will include the characteristics of civilization and the development of political, social, economic, and cultural institutions in the river valley centers and the diffusion to the fringe areas.

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#### **HIST 212 Ancient and Medieval Europe**

3c-01-3sh

**Note:** Not open to History and Secondary Social Science Education majors.

An examination of the development of civilization in Europe during the ancient and medieval periods. Focuses on the Ancient Greek and Roman civilizations and the medieval European civilization. The characteristics and institutions of civilization will be stressed as well as the political history.

# **HIST 214 Themes in American History**

3c-01-3sh

**Prerequisite:** HIST 195

Open only to non-History majors. Designed to give students an appreciation of the basic themes and issues in the making of American society. Students will examine themes such as the fruition of democracy, the American dream, slavery and freedom, the tensions between liberty and order, and the role of the United States in a world setting.

# **HIST 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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# **HIST 301 History of Ancient Greece**

3c-01-3sh

Analyzes major political, social, and economic developments in ancient Greek civilization from Bronze Age to death of Alexander.

# **HIST 302 History of Ancient Rome**

3c-01-3sh

Traces Roman history from early Republic down to fall of Empire. Roman political theory will be particularly emphasized.

#### HIST 303 Medieval Europe I, 400-1000

3c-01-3sh

History of early Medieval Europe, from decline of Rome to beginnings of High Middle Ages; emphasis on political, social, economic, religious, and intellectual developments.

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# HIST 304 Medieval Europe II, 1000-1300

3c-01-3sh

History of late Medieval Europe, from High Middle Ages to Renaissance period; emphasis on political, social, economic, religious, and intellectual developments.

#### **HIST 305 Renaissance and Reformation**

3c-01-3sh

History of Europe from c. 1250; rise of commercial city, kings, and pressures on Christian Church to 1600. Some consideration of technology and voyages.

# **HIST 306 Early Modern Europe**

3c-01-3sh

Greatness of France under Louis XIV; Sweden; Thirty Years' War. Emergence of modern society; French Revolution.

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# HIST 307 History of Europe: 1815-1914

3c-01-3sh

The study of Europe in nineteenth century, with emphasis on the emergence of major thought patterns, Romanticism, Nationalism, Socialism, and Positivism.

# **HIST 308 Twentieth-Century Europe**

3c-01-3sh

Political, economic, and diplomatic trends in Europe since 1900, with major emphasis on causes and results of war and search for security.

# **HIST 311 Rise and Fall of Hitler's Empire**

3c-01-3sh

In-depth study of Hitler and the Nazi order; offers an analysis of nineteenth-century origins of Nazi ideology and intensively analyzes domestic and foreign totalitarian policy (1920-1945), including Holocaust, Resistance, and the postwar Nuremberg Trials.

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#### **HIST 320 History of England to 1688**

3c-01-3sh

A survey of the growth of the English nation, with emphasis on political, social, and economic developments leading to seventeenth-century conflict between Crown and Parliament.

#### HIST 321 History of England, 1688 to Present

3c-01-3sh

A survey of the growth of England as a democratic constitutional monarchy. Attention directed to industrial revolution and to imperial expansion and England's role in twentieth-century world. Attention given to social and cultural history.

#### **HIST 322 French Revolution and Napoleon**

3c-01-3sh

Brief sketch of Old Regime, concentration on Revolution and Empire, with emphasis on politics, social structure, diplomacy, and economics.

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#### **HIST 324 History of Germany to 1848**

3c-01-3sh

The study of the development of Germany politically and culturally from ancient times, emphasizing medieval and early modern periods to 1849.

#### HIST 325 History of Germany: 1849 to the Present

3c-01-3sh

The study of the political and cultural development of modern Germany from the Revolution of 1848, including imperial, republican, and totalitarian phases, to post-World War II East and West Germany.

# **HIST 326 History of Russia**

3c-01-3sh

General survey of Russian history, culture, and institutions. Special consideration given to study of historical forces formative of Revolution of 1917.

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#### **HIST 327 Soviet Union and Contemporary Russia**

3c-01-3sh

**Prerequisites:** Sophomore standing, completion of <u>HIST 195</u> (nonmajors)

Analyzes the period from 1855 to the present, including the attempts at modernization by Imperial Russia, the creation of the Soviet Union and further modernization, and the collapse of the Soviet Union.

# **HIST 330 History of the Islamic Civilization**

3c-01-3sh

An approach to learning about a non-Western culture: Muhammad, Arabs, and Muslims as creators of a great civilization from rise of Islam to 1800; emphasis on cultural institutions of Islam and their interrelationships within Middle East.

#### **HIST 331 Modern Middle East**

3c-01-3sh

A survey of changes that have taken place in Middle East and in Islam since eighteenth century and of contemporary problems in that region.

# **HIST 335 History of East Asia**

3c-01-3sh

History of China and Japan from ancient times, Buddhism, medieval Japan, Chinese communism, industrialization. Some consideration of peripheral Asia from 1500.

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# **HIST 340 Colonial America**

3c-0l-3sh

A survey of original thirteen states from their inception as colonies within the British empire to 1763, the eve of Independence. Attention is given to their political development; economic position within the empire; relations with Indians; and evolution of social, educational, and religious life.

# **HIST 341 American Revolution**

3c-01-3sh

An examination of Whig-Tory participants of American Revolution. Examines events from 1763 to 1783. Changing interpretations of the causes and effects of the revolution will be discussed.

#### **HIST 342 The Early Republic**

3c-01-3sh

A survey of United States history from 1783 to 1850, with special attention on constitutional, political, economic, and social trends.

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# **HIST 343 Civil War and Reconstruction**

3c-01-3sh

The study of the failure of American democracy to cope with issues of mid-nineteenth century, followed by political, economic, military, and social developments during war and reconciliation of North and South.

# HIST 344 The Age of Big Business in America, 1877-1917

3c-01-3sh

Examines how big business developed in America, how the economic change reshaped society, and how the reshaped society responded politically.

#### HIST 345 The Age of Ragtime: American History, 1900-1929

3c-01-3sh

Using the nation's cultural development as its thematic foundation, analyzes the transitional character of the Progressive Era, World War I, and the 1920s.

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#### **HIST 346 Recent United States History**

3c-01-3sh

A study of political, economic, and cultural changes in American life since 1929; examines roots of social problems facing us today. Some recent foreign policy trends also studied.

#### HIST 350 History of Latin America Colonial Period, 1450-1820

3c-01-3sh

A study of life of people, Indian cultures, conquest by Spaniards and Portuguese, government during Colonial Period, and Wars of Independence.

#### HIST 351 History of Latin America: National Period, 1820-Present

3c-01-3sh

A study of the history of nations which have emerged since independence; emphasis on economic, political, cultural, and social developments of these nations, as well as relationships of these nations to others in the hemisphere.

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#### HIST 355 African History I: Antiquity to 1600

3c-01-3sh

**Prerequisites:** Sophomore standing, completion of <u>HIST 195</u> (nonmajors)

A survey of the sociocultural, political, and economic life of precolonial African societies. Focus is on ancient kingdoms and cultures, precolonial states, internal and Atlantic trade networks.

# HIST 356 African History II: 1600 to Present

3c-01-3sh

**Prerequisites:** Sophomore standing, completion of <u>HIST 195</u> (nonmajors)

A survey of African sociocultural, political, and economic developments during the colonial and modern periods. Course covers imperialism, the struggle for control for Africa, the two global wars and their repercussions for Africa, decolonization, and modern African states.

# HIST 360 History of Pennsylvania

3c-01-3sh

Emphasizes the cultural, economic, political, and social development of our state in its various periods from colonial to today. Special attention given to diversity of Pennsylvania's people, their institutions and problems.

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#### HIST 361 History of American Diplomacy, 1775-1900

3c-01-3sh

Traces foreign relations of the United States from Independence to emergence as a world power. Topics concentrate on themes of commercial relations, political isolation, expansion, and debate over imperialism.

# HIST 362 History of American Diplomacy, 1900-present

3c-01-3sh

Treats primarily our twentieth-century involvement in world affairs and domestic debate over that involvement. Special emphasis will be placed on the role of interest groups and increasing power of Executive Department over foreign affairs.

# **HIST 363 Thought and Culture in Early America**

3c-01-3sh

Selected topics in early American intellectual and cultural growth, with emphasis on Puritanism, Enlightenment, cultural nationalism, and Romantic movement.

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# **HIST 364 Thought and Culture in Modern America**

3c-01-3sh

Selected treatment of historical development of modern American movements in social and political thought, religion, philosophy, fine arts, and literature.

# **HIST 365 History of Black America Since Emancipation**

3c-01-3sh

Description and analysis of the role of blacks in the history of the United States since the Civil War; emphasis on key leaders, major organizations, leading movements, and crucial ideologies of blacks in modern America.

#### HIST 366 African-American Women

3c-01-3sh

Major economic, social, and political issues which have affected black women since their introduction into North America to the present.

# **HIST 367 Native American History**

3c-01-3sh

An unfamiliar perspective on a familiar tale. Presents the "new Indian History"—North America from Native American materials and points of view. Identification, analysis, and synthesis of Indian realities and options over time are at the heart of this course.

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#### **HIST 369 Women in America**

3c-01-3sh

A study of the activities of women from the colonial era to the modern era—evaluating cultural, societal, religious, economic, and political frameworks. Reviews women's involvement in movements for feminism, social reform, unionism, and the abolition of slavery.

#### **HIST 370 Religion in America**

3c-01-3sh

A history of religious belief and practice in the United States from the colonial period to the present, with an emphasis on the last one hundred years.

# **HIST 372 History of the Early American Working Class**

3c-01-3sh

Description and analysis of the nature and significance of the working class of the United States in the eighteenth and nineteenth centuries. The work settings and communities of workers will be examined as well as unions such as the National Labor Union and the Knights of Labor.

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# **HIST 373 History of the Modern American Working Class**

3c-01-3sh

Description and analysis of the nature and significance of the working class of the United States in the twentieth century. Work settings and strikes will be examined and analyzed as well as unions such as the United Mine Workers and the United Auto Workers and labor leaders including Samuel Gompers, John L. Lewis, and George Meany.

# **HIST 374 History of Organized Crime**

3c-01-3sh

Studies the relationship between urban, entrepreneurial crime and the evolution of industrial America.

# HIST 390 History of Women -- World Cultures

3c-01-3sh

Explores religious, legal, political, economic, and mythic dimensions of women in society from ancient to modern times, including Western and non-Western experiences.

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# **HIST 391 Film as History**

3c-01-3sh

Particularly concerned with probing the relationship between cinema and society. History of film is explored and student is given some background in film interpretation and cinematography, the western, science fiction, police films, and great foreign and American detective films.

#### **HIST 480 Senior Seminar**

3c-01-3sh

A regimen of research resulting in a written paper. Students work on a program selected by the instructor. For History majors or by instructor's permission.

#### **HIST 481 Special Studies in History**

var-1-3sh

#### **Prerequisite:** As appropriate to course content

Each semester, courses are offered in interest areas that are not part of the regular program. Some examples of courses of this type are the Victorian Age, the History of Love, World War II, the Great Depression, the Adams Chronicles, and the History of New York City. Students may schedule as many of these courses as desired, but two per semester is the usual limit.

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# **HIST 482 Independent Study**

var-3-6sh

**Prerequisites:** Prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office with 12sh in history; a 3.0 GPA in history classes; permission of a faculty member. Approval is based on academic appropriateness and availability of resources

Involves directed reading or research for qualified students. Experimental projects and personalized learning are encouraged.

# **HIST 483 Independent Study**

3c-01-3sh

An honors program within the independent study format. Minimum qualifications are a 3.0 GPA, 15sh of history, and a 3.2 GPA in history classes. Satisfactory honors work is rewarded by formal recognition at graduation.

#### **HIST 487 Honors Colloquium in History**

3c-01-3sh

Colloquium emphasizing reading, discussion, and writing on an announced historical topic or theme which will vary from semester to semester according to the expertise of the faculty member teaching the course. Open to all Honors College students who have completed HNRC 201 and, with instructor permission, to junior and senior History, History/Pre-law, and Social Science Education majors who have at least a 3.5 GPA in history classes.

# **HIST 493 Internship**

var-3-12sh

With departmental approval, students are attached to local or national government or private agencies doing directive, bibliographical, archival, or museum work. Advising professor meets with intern regularly and determines what papers or reports will be required.

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# **Honors College**

Robert E. Cook Honors College Academic Affairs Division

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

#### HRNC 101 HRNC 102 HRNC 201

# **HRNC 101 Honors Core I**

5c-01-5sh

**Prerequisites:** Freshman standing, admission to the Honors College

This first in a series of three required and interrelated courses introduces Honors College students to major works of literature and art; to major ideas in history, philosophy, religious studies, literature, and the fine arts; and to critical thinking skills used in reading, writing, and discussion in an integrated, synthetic, and interactive pedagogical environment. While materials from various periods and disciplines are part of HNRC 101, each instructor has attempted to incorporate some works from a common century to provide students with a common ground for exploring the core questions.

#### **HRNC 102 Honors Core II**

5c-01-5sh

Prerequisites: HRNC 101, freshman standing, and admission to Honors College

The second in a series of three required and interrelated courses. HNRC 102 continues the emphases of HNRC 101: (a) introduction to major works of literature and fine arts; (b) introduction to major ideas in history, philosophy, religious studies; and (c) focus on critical thinking skills used in reading, writing, and discussion in an interrelated, synthetic, and interactive pedagogical environment. Although materials come from various periods and disciplines, each instructor has incorporated works from a common century to provide a common ground for exploring core questions. Building on their experiences in HNRC 101, students will become more critical and analytical in their reading and response. Further, the ability to synthesize will be emphasized based on their previous readings and learning experiences.

#### **HRNC 201 Honors Core III**

4c-01-4sh

**Prerequisites:** Sophomore standing, admission to the Honors College, and successful completion of HNRC 101 and 102 if admitted to Honors College as a first-year student. Prerequisites for students admitted to the Honors College as sophomores are ENGL 101 and at least one Liberal Studies course in the humanities or fine arts.

Completes the introduction of Honors College students to major works of literature and art; to major ideas in history, philosophy, religious studies, literature, and the fine arts; and to critical thinking skills used in reading, writing, and discussion in an integrated and interactive pedagogical environment.

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# Hotel, Restaurant, and Institutional Management

# Department of Hotel, Restaurant, and Institutional Management College of Health and Human Services

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

<u>HRIM 101 HRIM 115 HRIM 245 HRIM 259 HRIM 260 HRIM 281 HRIM 299 HRIM 313 HRIM 350 HRIM 356 HRIM 358 HRIM 365 HRIM 401 HRIM 402 HRIM 406 HRIM 408 HRIM 411 HRIM 413 HRIM 420 HRIM 433 HRIM 481 HRIM 482 HRIM 493</u>

# **HRIM 101 Introduction to Hospitality Management**

3c-01-3sh

A study of the development and current status of the hospitality industry. Major hotel, restaurant, and related area employers are profiled. Career opportunities are discussed. Guest speakers from various hospitality industry segments are featured.

#### **HRIM 115 Introduction to Tourism**

3c-01-3sh

Introduces the student to concepts pertaining to international and domestic tourism. Course examines the economic, social, and cultural aspects of tourism as well as how destinations are marketed.

# HRIM 245 Diversity and Multicultural Management in the Hospitality Industry

3c-01-3sh

**Prerequisite:** Sophomore standing

Course will explore what happens when diverse people work together in the hospitality industry. It will also examine the effects of international migration and the changing roles of women and other minorities which lead to multicultural urban centers within the United States and other hospitality venues. Furthermore, it will also focus on the cultural factors affecting productivity in the culturally diverse hospitality environment.

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# **HRIM 259 Hospitality Purchasing**

3c-01-3sh

**Prerequisite:** FDNT 150 or equivalent

Includes sources, standards, grades, methods of purchase, and storage of various foods, beverages, and fixtures. Emphasis will be on the development of purchasing policies and specifications.

# **HRIM 260 Hotel Systems Management**

3c-01-3sh

Development and application of management skills as applied to the rooms division of a hotel. Specific emphasis will be placed on front office procedures, the relationship between the hotel's rooms division, food and beverage, and supports areas, and safety and security concerns. (Offered as HRIM 360 prior to 2000-2001)

# **HRIM 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

# **HRIM 299 Cooperative Education (First Experience)**

0sh

**Prerequisites:** Completion of 30sh, 2.0 GPA

A semester-long program designed to combine classroom theory with practical application through job-related experiences. The student is required to complete two alternating experiences; only one may be a summer experience.

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# HRIM 313 Food Systems I

2c-var-4sh

Prerequisites: FDNT 150, HRIM 259, permission; professional chef's uniform required

A basic course in quantity food production with experience in planning, purchasing, preparing, and serving nutritionally adequate meals. Requirements of the National School Lunch program emphasized in satellite and on-premises food service. Requires some preparation and service outside regularly scheduled class time.

# HRIM 350 Introduction to the Casino Industry

3c-01-3sh

Prerequisites: Sophomore standing or permission of the professor

Introduces the student to the multi-billion-dollar casino industry. Examines the gaming industry from a historical perspective and includes legal, social, and economic issues. Also reviews the various games played in casinos and the current trends, as well as the most popular casino destinations in the world. Special attention will be devoted to the growth of casinos on cruise ships, on Native American reservations, and on riverboats in the U.S. Includes a field trip to Atlantic City or another casino setting, which occurs on a weekend. This field trip serves as a catalyst to appreciate all of the theoretical concepts discussed in the lectures.

# HRIM 356 Human Resources in the Hospitality Industry

3c-01-3sh

Prerequisites: PSYC 101, HRIM 313

Organization and administration of hospitality business, including human resource theories and policies, work simplification, training, communication, and safety.

# HRIM 358 Food Service Equipment and Facilities Design

3c-01-3sh

**Prerequisite:** HRIM 313

Examines types and uses of food service production and service equipment with emphasis on incorporation into an effective facilities design. Field trips permit investigation of a variety of unit designs.

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# **HRIM 365 Hotel Facilities Management**

3c-01-3sh

**Prerequisite:** HRIM 101

Analyzes principles of hotel design, construction, and physical plant management. Housekeeping and maintenance department operations are discussed.

#### **HRIM 401 Cost Management**

3c-01-3sh

Prerequisites: HRIM 356, 313

Food, beverage, and labor controls for hospitality or health care operations, including relationships between budgetary information and managerial decision making to meet financial needs.

# **HRIM 402 Beverage Management**

3c-01-3sh

**Prerequisites:** Verifiable proof of 21 years of age or permission

Examines the principles, processes, and theories of beverage service. Analysis of methods of alcoholic beverage production and examination of categories of spirits, malt beverages, and wine, as well as legal concerns of service. Development and marketing of beverage operations are discussed. Includes voluntary tasting and evaluation of alcoholic beverage products. (Offered as HR 306 Food and Beverage Management prior to 2000-01)

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# **HRIM 406 Catering and Banquet Management**

var-3sh

Prerequisites: HRIM 313, majors only; chef's uniform and wait-staff attire required

Profitable organization, preparation, and service of catered events in both on- and off-premises locations are the main emphases. Requires meeting times other than listed in order to meet course objectives.

# **HRIM 408 Institutions Management**

3c-01-3sh

Prerequisites: HRIM 313, 356, ACCT 201, senior standing

A compendium of the concepts of managing human resources, capital, materials, equipment, and markets as related to various hospitality property systems. Focus on concept development and managerial decision making.

# **HRIM 411 Seminar in Hospitality Management**

3c-01-3sh

Prerequisites: HRIM 360, 365

An analysis of the current trends and practices within hospitality industry as related by industry professionals. Includes researching topics and writing at least three research papers. Carries writing-intensive credit.

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# **HRIM 413 Advanced Restaurant Operations**

1c-6l-4sh

**Prerequisites:** HRIM 313 and permission; professional chef uniform required

A food and beverage systems course with emphasis on restaurant front- and back-of-house operations management. Students research, plan, prepare, and present theme-oriented dinners showcasing selected domestic and international cuisine. Students function as both operations employees and managers within the department's food and beverage operation.

#### **HRIM 420 Hotel Sales**

3c-01-3sh

Prerequisites: HRIM 101 and 260

A practical approach to understanding the functions and activities of the sales department within a hotel property. A thorough review of the organizational structure of a typical hotel sales department and documentation used by the department will be made. Identification of and approaches to securing typical hotel market segments will be made.

# **HRIM 433 Educational Study Tour**

var-2-6sh

Comprehensive program of directed activities permits firsthand experiences in the historical and cultural aspects of the hospitality industry worldwide. Visits to renowned operations will be included in the tour.

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# **HRIM 481 Special Topics**

var-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

### HRIM 482 Independent Study in Hospitality Management

var-1-6sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources. Must apply a semester in advance and have 60sh earned.

# HRIM 493 Internship in Hospitality Management

var-6-12sh

**Prerequisites:** 57 earned credits, 2.0 GPA, and completion of an approved 440-hour Work Experience I

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**Note:** White uniforms including white shoes are required for all lab courses where food is prepared. Students must meet the professional dress requirements of the department.

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# **Industrial and Labor Relations**

# Department of Industrial and Labor Relations College of Health and Human Services

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

#### ILR 281 ILR 426 ILR 480 ILR 481 ILR 482 ILR 499

# **ILR 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

# ILR 426 Case Studies in Labor-Management Relations

3c-01-3sh

In-depth study of daily labor-management relationships in a variety of organizational settings through utilization of case study technique. Focuses on a problem-solving approach to the legal and contract administration components of the labor-management relationship.

# ILR 480 Principles and Practices of Collective Bargaining

3c-01-3sh

An examination of the historical, legal, and functional parameters of collective bargaining. Topics covered include the organizing process, negotiations, contract administration, dispute resolution, and public sector labor relations.

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# ILR 481 Special Topics in Industrial and Labor Relations

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are offered primarily for upper-level undergraduate students.

# **ILR 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

# **ILR 499 Independent Study**

# var-1-3sh

Independent reading and research under the direction of a faculty member.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# **Information Management**

Department of Management Information Systems and Decision Sciences Eberly College of Business and Information Technology

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

<u>IFMG 101 IFMG 201 IFMG 205 IFMG 251 IFMG 255 IFMG 261 IFMG 281 IFMG 300 IFMG 350 IFMG 352 IFMG 354 IFMG 370 IFMG 372 IFMG 382 IFMG 450 IFMG 451 IFMG 455 IFMG 470 IFMG 480 IFMG 481 IFMG 482 IFMG 485 IFMG 493</u>

Note: All courses at the 300 and 400 level are open only to students with junior or senior standing. All students, regardless of major or program affiliation, must meet course prerequisite requirements in order to enroll for a given course. Business majors (except those majoring in Business Education) who have not achieved Junior Standing are normally not permitted to enroll in 300- or 400-level courses.

# **IFMG 101 Microbased Computer Literacy**

3c-01-3sh

An introductory course designed to provide students with a fundamental understanding of computers. Familiarizes students with the interaction of computer hardware and software. Emphasis is placed on the application of microcomputers, the use of productivity software (word processing, spreadsheet management, file and database management), and the social and ethical aspect of the impact of computers on society.

**Note:** This course is cross-listed as <u>BEDU 101</u> and <u>COSC 101</u>. Any of these courses may be substituted for each other and may be used interchangeably for D or F repeats but may not be counted for duplicate credit.

# IFMG 201 Internet and Multimedia

3c-01-3sh

Prerequisite: COSC/IFMG 101 or prior exposure to word processing and electronic mail

The major focus will be on the evaluation of information and multimedia resources available on electronic networks when doing research in an area of one's choice. This information literacy course is designed for students to gain a more in-depth understanding of the information resources available electronically and of how to utilize them more effectively in communicating. Students will learn how to access and utilize these resources for two-way communications and support for decision making while incorporating selected elements in multimedia presentations of their own design. (BEDU/COMM/COSC/IFMG/LIBR 201 may be used interchangeably for D or F repeats and may not be counted for duplicate credit.)

#### **IFMG 205 Foundations of MIS**

3c-01-3sh

Prerequisite: <a href="Mailto:COSC/IFMG 101">COSC/IFMG 101</a>

An introductory course designed to provide students with a fundamental understanding of MIS. Systems theory, quality, decision making, and the organizational role of information systems are introduced. Information technology, including basic programming skills, is stressed. Concepts of organization, information system growth, telecommunications, and re-engineering are introduced.

#### IFMG 251 Business Systems Analysis and Design

3c-01-3sh

Prerequisite: ACCT 201 and IFMG 205

Involves teaching the tools and techniques required for the analysis and the design of business systems. The major steps in the system's development life cycle are presented along with practical applications from the major subsystems of typical business organizations. Issues related to personnel, hardware, software, and procedures are explored as students work individually and in project teams to solve typical business application problems.

# IFMG 255 Business Applications in COBOL

3c-01-3sh

Prerequisites: ACCT 201 and IFMG 241 or 300

Introduces the student to the COBOL programming language as it applies to business organizations and their applications. Structured COBOL concepts and methods are taught as the student learns how to solve business problems using computers. The student will be involved using files, reports, and tables to produce a variety of outputs utilized in operating and managing business activities.

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# IFMG 261 Micro Database Systems

3c-01-3sh

Prerequisite: COSC/IFMG 101

The fundamentals of database management including different database models and database design issues will be examined. Emphasizes the use of various tools of relational database software, including report generators, screen builders, and query facilities. Design techniques and software tools will be used in creating a database application. Intended as an elective for business students who are not majoring in MIS. MIS majors will not be allowed to count this course towards satisfying their graduation requirements.

# **IFMG 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

# IFMG 300 Information Systems: Theory and Practice

3c-01-3sh

Prerequisites: COSC/IFMG 101, ACCT 202

Includes basic MIS concepts, fundamentals, and practices. Broad areas of coverage are principles, the computer as a problem-solving tool, Computer-Based Information Systems (CBIS), organizational information systems, and Information Systems management.

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# IFMG 350 Business Systems Technology

3c-01-3sh

Prerequisite: COSC 220 or IFMG 255

Student is taught fundamental and advanced concepts of computer hardware and a procedure for evaluation and acquisition of computer hardware.

# IFMG 352 LAN Design and Installation

3c-01-3sh

Prerequisite: IFMG 350 or OSYS 313 or any COSC course numbered 300 or higher

A study of fundamental local area networking concepts. Detailed study of the basics of local area network (LAN) technology. Comparative study of commercially available LAN systems and products. Features a hands-on laboratory

implementation of a LAN. Cross-listed as COSC 352. Either course may be substituted for the other for D/F repeats but may not be taken for duplicate credit.

# **IFMG 354 Testing and Controlling LANs**

3c-01-3sh

Prerequisite: COSC 352 or IFMG 352 or equivalent

Explores local area network (LAN) topologies and their associated protocols. Introduces ways of interconnecting, securing, and maintaining LANs. Provides students with hands-on experience in the interconnection of multiple LANs. Also presents a hands-on approach to design, testing, and administration of interconnected LANs. Cross-listed as COSC 354. Either course may be substituted for the other for D/F repeats but may not be taken for duplicate credit.

#### IFMG 370 Advanced COBOL

3c-0l-3sh

Prerequisite: <u>COSC 220</u> Corequisite: <u>IFMG 350</u>

A continuation of introductory COBOL with an emphasis on structured methodology of program design, development, testing, implementation, and documentation of common business-oriented applications. It includes a heavy emphasis on the techniques and concepts of the table processing, file organization, and processing alternatives, internal and external sorting, subroutines, and application development for both the batch and on-line systems. Micro Focus COBOL software is utilized.

### **IFMG 372 Microcomputer Applications**

3c-01-3sh

**Prerequisites:** IFMG 350, COSC 220, ACCT 201, or by permission

Demonstrates how to use the microcomputer in business and how to provide technical assistance to users of the microcomputer. Emphasis will be placed on integrating software and interfacing with mainframe computers or with minicomputers. Topics covered include microcomputer hardware, microcomputer operating systems, local area networks, and microcomputer software tools.

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#### IFMG 382 Auditing for EDP Systems

3c-01-3sh

Prerequisites: ACCT 201, COSC 220, or IFMG 255

Emphasizes the responsibility of the systems analyst to include in systems design the proper management and financial controls and audit trails in business information systems. The design of controls for application programs and systems is covered. Audit software packages are examined.

# IFMG 450 Data Base Theory and Application

3c-01-3sh

**Prerequisites:** IFMG 370, upper-division students only

After learning data structures, the student will then apply them to CODASYL compatible database management systems, TOTAL, and IBM's database management system. Student must develop and use a database as part of requirement. [Course revision in process]

# **IFMG 451 Systems Analysis**

3c-01-3sh

Prerequisites: IFMG 350 and IFMG 255 or COSC 220

Develops an understanding of concepts and techniques involving conventional and structured approaches to analyzing problems of business information systems and systems definition feasibility, as well as quantitative and evaluative techniques of business information systems analysis.

# IFMG 455 Data Warehousing and Mining

3c-01-3sh

Prerequisites: IFMG 450 or IFMG 261 or COSC 441, and MATH 214 or 216

Introduces students to the strategies, technologies, and techniques associated with this growing MIS specialty area. Composed of two main parts. In the first part, students will learn the basic methodology for planning, designing, building, using, and managing a data warehouse. In the second part, students will learn how to use different data mining techniques to derive information from the data warehouse for strategic and long-term business decision making.

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#### IFMG 470 Systems Design

3c-0l-3sh

**Prerequisite: IFMG 451** 

Students learn tools and techniques for design of a business system. Along with classroom discussions of principles and techniques for analyzing, designing, and constructing the system, students will formulate system teams to analyze the problems of an existing business information system, to design an improved system, and to control implementation of a new system.

# IFMG 480 Distributed Business Information Systems

3c-01-3sh

**Prerequisite:** IFMG 350

A study of the techniques involved in planning, design, and implementation of distributed processing systems. Distributed marketing, financial, and corporate accounting systems are included.

# **IFMG 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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# **IFMG 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through adviser, faculty member, department chairperson, dean, and provost's office Individual research and analysis of contemporary problems and issues in a concentrated area of study under the guidance of a senior faculty member. Approval is based on academic appropriateness and availability of resources.

# **IFMG 485 Seminar: IS Current Topics**

3c-01-3sh

Prerequisites: <u>IFMG 300</u>, senior standing

Current topics and issues in information systems in the business environment are addressed through systematic coverage of current literature and/or electronic sources. Practitioner publications and academic journals integrate emerging technologies and information issues with identification of their impact on the management of business organizations. Not a capstone requirement but a vehicle to explore a variety of topics in the field.

#### IFMG 493 Internship in MIS

var-3-12sh

**Prerequisites:** IFMG 370, consent of department chairperson and dean

Positions with participating business, industry, or governmental organizations provide the student with experience in systems analysis. **Note:** Internship IFMG 493 can be taken, if the student qualifies, as a general elective. It does not fulfill the major-area elective requirement.

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# **Interior Design**

# Department of Human Development and Environmental Studies College of Health and Human Services

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

INDS 105 INDS 118 INDS 205 INDS 213 INDS 218 INDS 281 INDS 305 INDS 310 INDS 312 INDS 313 INDS 315 INDS 319 INDS 370 INDS 380 INDS 405 INDS 433 INDS 464 INDS 465 INDS 481 INDS 482

#### **INDS 105 Introduction to Interior Design**

3c-01-3sh

Presents overview of interior design, including introduction to design, selection, and application of components in the interior environment. Emphasis upon development of effective design problem solving skills. (Offered as CS 217: Interior Design prior to 1998-99)

# **INDS 118 Drafting for Construction I**

1c-31-3sh

Introduces two- and three-dimensional graphic skills, including basic drawing, drafting, delineating, perspective drawing; applies principles and elements of design; stresses graphic design and layout. (Offered as CS117: Design Graphics prior to 1998-99)

# **INDS 205 Color Theory and Application**

3c-01-3sh

The theoretical basis of color is presented as it relates to the human visual system, light, pigment, perception, and measurement. The application of color theory is discussed in terms of interior design, merchandising, and display. (Offered as CS205 prior to 1998-99)

# **INDS 213 Residential Appliances and Consumer Electronics**

2c-21-3sh

Consumer education in the selection, use, and care of home equipment appliances and consumer electronics; the relationship of energy sources and utilities to major appliances, portable and personal care appliances, and consumer electronics. (Offered as CS213 prior to 1998-99)

# **INDS 218 Drafting for Construction II**

1c-31-3sh

Prerequisites: INDS 118 and BEDU/COSC/IFMG 101

Introduces basic computer-aided drafting and design (CADD) for designers; emphasizes CADD theory and the value of the computer as a problem-solving, design tool.

# **INDS 281 Special Topics**

3c-01-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics which are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times.

Special topics numbered 281 are offered primarily for lower-level undergraduate students.

# **INDS 305 Interior Lighting**

3c-01-3sh

**Prerequisite:** INDS 105 or equivalent

Lighting fundamentals applicable to the environmental design of residential and commercial spaces. Includes calculation methods, terminology, theory of color visibility, light source alternatives, fixture function and selection, lighting trends, and related professional organizations. (Offered as CS465 prior to 1998-99)

# **INDS 310 Human Factors in Interior Design**

3c-01-3sh

Prerequisite: Junior standing

The study of human and technology systems interface as related to interior design. Emphasis will be on ergonomic and economic decision making to insure that the user can function with a minimum of stress and a maximum of efficiency. (Offered as CS310 prior to 1998-99)

# **INDS 312 Housing and Culture**

3c-01-3sh

Managerial, sociological, economic, and aesthetic aspects of housing and people are investigated as well as a consideration of the environment of the home as part of the community. (Offered as CS312 prior to 1998-99)

#### **INDS 313 Materials and Finishes**

3c-01-3sh

**Prerequisite:** FSMR 314

An introduction to the modern and historic use and maintenance of materials in architecture, construction, and interior design and the codes and costs that govern their use today. Consideration is given to contemporary methods of harvesting, preparation, and manufacture of building materials and the evaluation of the impact of these processes on the environment.

# **INDS 315 Residential Design I**

1c-31-3sh

Prerequisite: INDS 218

Applies interior design space planning and design problem solving processes to residential design and emphasizes graphic communication and presentation of solutions. (Offered as CS357: Interior Design Studio prior to 1998-99)

# INDS 319 Residential Design II: Kitchen, Bath, Media Room Design

1c-31-3sh

Prerequisite: **INDS** 315

Design elements are applied to kitchen, bath, and media room areas of the residence to provide design solutions supporting individual needs and changing lifestyles. Addresses the needs of special populations. Current national standards will be addressed.

#### INDS 370 Development of Design I

3c-01-3sh

A chronological study from ancient times to the mid-nineteenth century of the dominant influences and characteristics of historical interiors, furniture, and ornamental design. Emphasis is placed upon stylistic detail and its relationship to social, economic, political, religious, and aesthetic influence and to the contemporary scene. (Offered as CS462: Historic Interiors prior to 1998-99)

#### INDS 380 Development of Design II

3c-01-3sh

Prerequisite: **INDS** 370

A chronological study from mid-nineteenth century to the present of the dominant influences and characteristics of the twentieth-century interior, furniture, and ornamental design. Emphasis is placed upon stylistic detail and its

relationship to social, economic, political, religious, and aesthetic influences and to contemporary usage. (Offered as CS463: Modern Interiors prior to 1998-99)

# **INDS 405 Interior Design Professional Practice**

3c-0l-3sh

**Prerequisite:** Junior standing

Planning, business organization, management, contracts, procedures, and ethics for the professional interior designer. (Offered as CS468 prior to 1998-99)

# **INDS 433 Study Tour**

var-1-6sh

Prerequisite: Upper-level standing

Opportunity is provided to visit business establishments and cultural centers concerned with household equipment, furnishings, textiles, clothing, and housing in America as well as abroad. Museums, factories, designers' showrooms, distribution centers, stores, cultural events, and seminars are included. Course may be repeated for a total of 6sh. (Cross-listed as CNSV/FSMR 433.)

# INDS 464 Contract Design I

1c-3l-3sh

Prerequisite: INDS 319

Applies interior design space planning and design problem-solving processes to nonresidential design and links goals in interior design and facility management. (Offered as CS464: Interior Planning and Drawing prior to 1998-99)

#### **INDS 465 Contract Design II**

1c-31-3sh

Prerequisite: INDS 464

A studio, project-based course, ascertaining the process to be followed in developing large-scale nonresidential interior design schemes of over 10,000 square feet.

#### **INDS 481 Special Topics**

3c-01-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics which are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are offered primarily for upper-level undergraduate students.

#### **INDS 482 Independent Study**

var 1-to-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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# **International Studies**

# **Department of Political Science College of Humanities and Social Sciences**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

#### <u>ITST 281 ITST 482</u>

# **ITST 281 Special Topics in Non-Western Studies**

var-1-3sh

Focuses on politics, society, and culture of a particular non-Western country or area. Content is variable, depending on the semester. Will be taught by visiting exchange professors from non-Western countries. This Special Topics course may be offered on a continuing basis.

# **ITST 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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# Italian

# Department of French College of Humanities and Social Sciences

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

# ITAL 101 ITAL 102 ITAL 201 ITAL 202

# ITAL 101 Basic Italian I

3c-01-3sh

Introduces students to the Italian language, with emphasis on the four basic skills: reading, writing, speaking, and listening. Students will also gain knowledge of Italian culture. Primary emphasis is on the mastery of oral communication and basic writing skills. Attendance and language lab practice are required.

#### **ITAL 102 Basic Italian II**

3c-01-3sh

**Prerequisite:** <u>ITAL 101</u> or equivalent

A continuation of Basic Italian I. Introduces students to the Italian language, with emphasis on the four basic skills: reading, writing, speaking, and listening. Students will also gain knowledge of Italian culture. Primary emphasis is on the continuing mastery of oral communication and writing skills. Attendance and language lab practice are required.

#### ITAL 201 Intermediate Italian III

3c-01-3sh

**Prerequisites:** <u>ITAL 101</u> and <u>ITAL 102</u> or equivalent

An intermediate-level course for students who have previously studied Italian. A continuation of mastery of the four skills: reading, writing, speaking, and listening. Students will also increase their knowledge of Italian history, culture, and literature.

#### ITAL 202 Intermediate Italian IV

3c-01-3sh

**Prerequisite:** <u>ITAL 201</u> or equivalent

An intermediate-level course for students who have previously studied Italian. Students will continue their progress in the mastery of the four skills: reading, writing, speaking, and listening. Emphasis will be on increasing proficiency in reading and writing. Students will also increase their knowledge of Italian history, culture, and literature.

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# Journalism

# Department of Journalism College of Humanities and Social Sciences

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

JRNL 102 JRNL 105 JRNL 120 JRNL 220 JRNL 243 JRNL 250 JRNL 281 JRNL 321 JRNL 326 JRNL 327 JRNL 328 JRNL 337 JRNL 344 JRNL 345 JRNL 347 JRNL 348 JRNL 375 JRNL 393 JRNL 423 JRNL 427 JRNL 430 JRNL 446 JRNL 450 JRNL 455 JRNL 481 JRNL 482 JRNL 490 JRNL 491 JRNL 492 JRNL 493 JRNL 494

#### JRNL 102 Basic Journalistic Skills

3c-01-3sh

Prerequisite: ENGL 101

Required for journalism majors and minors. Emphasis will be on grammar, punctuation, spelling, AP Stylebook, copyediting, headlines, and accuracy.

#### JRNL 105 Journalism and the Mass Media

3c-01-3sh

Prerequisite: ENGL 101

A critical examination of roles-goals of newspapers, magazines, radio, and television as they affect American society socially, politically, and economically.

# JRNL 120 Journalistic Writing

3c-01-3sh

**Prerequisite:** ENGL 101, nonmajors/minors

Emphasis will be on intelligent use of writing ability in a journalistic style and understanding of the why of journalism and mass media. Practices and improves writing skills for all news media, print and broadcast.

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# JRNL 220 Writing for the Print Media

3c-01-3sh

**Prerequisites:** JRNL 102 (C or better), majors only

A course in journalistic style intended for students who plan to become professional writers. Teaches the basic journalistic formats and strategies used in print media such as the summary lead, the delayed lead, and the conventional news-story format. Throughout emphasizes economy, clarity, and the development of voice for a given medium.

# JRNL 243 History of the American Press

3c-01-3sh

**Prerequisites:** JRNL 120 or 220

Traces the development of the American press from its Colonial roots. Emphasis will be on the role of the press in political and social development.

#### JRNL 250 Women and the Press

3c-01-3sh

**Prerequisites:** ENGL 101, sophomore standing

Explores the role of women in American journalism. Includes study of lives/careers of women journalists and their specific contributions to the profession. Emphasis will be on evolution of equal opportunity for women and other minorities in the American Press. Attention to the changing definition of news as influenced by the inclusion of women and minorities in editorial roles.

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#### **JRNL 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

#### JRNL 321 Feature Writing

3c-01-3sh

Prerequisites: JRNL 102, 220

Designed for the student who might work in journalism or who might wish to write on a part-time or free-lance basis.

#### JRNL 326 Public Relations I

3c-01-3sh

**Prerequisites:** <u>JRNL 102</u>, <u>120</u> or <u>220</u>

Introduces students to the principles, practices, programs, and possibilities in the various areas of public relations.

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#### JRNL 327 Layout Design and Production

2c-31-3sh

Prerequisite: JRNL 105

Provides basic techniques and theories of layout design and production, including typography, copyfitting, photo/art cropping and scaling, and steps in design process. Includes traditional paste-up and desktop publishing in the design of ads, newspapers, newsletters, brochures, and magazines.

#### **JRNL 328 News Reporting**

3c-01-3sh

**Prerequisites:** JRNL 102, 105, 220, majors only

Includes instruction in writing the news story, preparing copy, interviewing, covering special events, and similar reporting activities.

# **JRNL 337 Editing**

3c-01-3sh

Prerequisites: JRNL 102, 220

Stresses basic practices such as copyediting and headline writing while also focusing on guidelines for improving accuracy, clarity, transition, spelling, and punctuation of copy. Students use wire service stylebook extensively.

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# **JRNL 344 Issues and Problems**

3c-01-3sh

Prerequisites: <u>JRNL 102</u>, <u>JRNL 120</u>, or <u>JRNL 220</u>

Students examine critical case histories of ethical and professional situations and circumstances in the mass communication industry in a lecture and discussion format.

#### JRNL 345 Sports Journalism

3c-01-3sh

Prerequisite: JRNL 220

Emphasizes skills for covering, writing, and editing of sports and introduces students to specific practices in newspaper, radio-TV, and sports information work.

# Back to Top

#### JRNL 347 Journalism Law

3c-01-3sh

**Prerequisites:** JRNL 328, junior/senior standing

Open to nonmajors by permission of the instructor. A survey of the major Supreme Court and state court rulings governing the mass media, especially the news media. Areas include libel, antitrust, free press/fair trial, privacy. Approach is nontechnical.

#### JRNL 348 The Editorial Page

3c-01-3sh

**Prerequisite:** Junior/senior standing

Emphasis will be on the writing of vigorous but thoughtful and fair editorials. Study of contemporary practice and policy on letters to the editor, columnists, cartoons, the op-ed page.

# **JRNL 375 World News Coverage**

3c-01-3sh

**Prerequisite:** Sophomore standing

Deals with international news events and analysis of international new coverage in sources from around the world. Emphasis placed on analyzing comparative coverage of events in different sources. Students study not only current international news but also how it is reported. The goal of the course is fostering a critical attitude toward news.

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#### JRNL 393 Document Design I

3c-01-3sh

**Prerequisite:** Junior/senior standing

Teaches students advanced principles of document design and gives them the opportunity to apply techniques of rhetorical/stylistic analysis, general problem solving, and holistic information display to a wide variety of writing formats used in business, industry, and government news.

#### JRNL 423 Management in Mass Communications

3c-01-3sh

**Prerequisites:** JRNL 493 or field experience

Attention given to the process of advancement to management positions in the advertising, journalism, and public relations industries.

#### **JRNL 427 Publications**

3c-01-3sh

**Prerequisites:** JRNL 327 or instructor permission

Provides advanced techniques and theories of publications design, including the legibility principles of typography, the psychological impact of color and paper, and designing on-line publications, such as newspapers, newsletters, and magazines. Students will also learn principles and concepts of publications management, including coping with deadline pressures and the creative disposition, and the marketing of publications. The class will produce a total publication.

# JRNL 430 Public Opinion and the News Media

3c-01-3sh

**Prerequisite:** Junior standing

Deals with understanding and measuring public opinion. Emphasis is placed on critically analyzing the historical origins and the dynamics of public opinion in the policymaking process as well as the role of the news media in public opinion. Students then measure people's thinking on any given issue or issues.

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#### JRNL 446 Research Methods in Journalism

3c-01-3sh

Prerequisite: JRNL 328 or instructor's permission

Explores theoretical and practical issues in information gathering, with emphasis on data analysis and computer-assisted reporting for public affairs journalism. Students will apply scientific methods in news reporting and analyze the effects of precision journalism on society.

# JRNL 450 Advertising Writing

3c-01-3sh

**Prerequisite:** JRNL 220, instructor permission

A basic course in the preparation of advertising copy and continuity for all media. It is a combination of lecture and laboratory course. Enrollment is limited to fifteen upperclass majors per semester.

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### **JRNL 455 High School Journalism**

3c-01-3sh

**Prerequisite:** Junior standing or permission

Aimed at equipping students with basic skills in teaching and student media advising at the high school level. Offers a package of skills ranging from basic elements of news, news writing, editing, newspaper layout and design, student publications advising as well as legal and ethical issues in high school journalism. For nonmajors.

#### **JRNL 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

These courses vary from semester to semester, covering a number of journalism specialties. From time to time they are converted to permanent course numbers. Special topics numbered 481 are offered primarily for upper-level undergraduate students.

#### JRNL 482 Independent Study

var-1-6sh

**Prerequisite:** Prior approval through adviser, faculty member, department chairperson, dean, and provost's office Opportunities for independent study that goes beyond the usual classroom activities. Approval is based on academic appropriateness and availability of resources; enrollment is limited to fifteen upperclass majors per semester.

#### JRNL 490 Public Relations II

3c-01-3sh

Prerequisite: JRNL 220, JRNL 326

A public relations writing class that includes assignments such as releases, features, newsletters, reports, biographies, rewrites, hometown stories, copyediting, interviewing, research, and special projects.

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#### **JRNL 491 Presentation Making**

3c-01-3sh

Prerequisite: JRNL 220, JRNL 326

Gives the student practice in writing and making oral presentations based on public relations cases and problems. Familiarizes the student with problem-solving and small-group communication skills necessary for those working in the area of public affairs.

#### JRNL 492 Problem-solving in PR

3c-01-3sh

Prerequisite: JRNL 328

Introduces students to techniques for analyzing and tracking information flow in organizations. Introduces students to creative problem-solving techniques which are standard practice in corporate research groups.

#### **JRNL 493 Internship**

var-6-12sh

Prerequisites: JRNL 102, JRNL 105, JRNL 220, JRNL 328, department approval

On-the-job training opportunities in journalism and related areas. Maximum of 6sh may be applied to 30sh minimum of major.

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#### JRNL 494 Document Design II

3c-01-3sh

Prerequisite: JRNL 328, JRNL 393

Gives students advanced work in preparation of substantial corporate and government documents such as annual reports, lengthy project reports, and research reports, etc. Emphasizes skills in research of public and government documents, data analysis and problem solving, holistic information display, writing, and editing.

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# Latin

# **Department of Spanish and Classical Languages College of Humanities and Social Sciences**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

<u>LATN 101 LATN 102 LATN 201 LATN 281 LATN 351 LATN 352 LATN 361 LATN 362 LATN 371 LATN 481 LATN 482</u>

#### **LATN 101 Elementary Latin I**

4c-01-4sh

For beginning students. Emphasis is on oral and reading skills. Students will learn most of the Latin noun system; they will also learn how to answer simple and moderately difficult Latin questions. There are also short readings in easy Latin. Students learn significant differences between Latin and English. Attendance is required.

#### **LATN 102 Elementary Latin II**

4c-01-4sh

A continuation of LATN 101. In grammar, students finish the noun system and learn several Latin tenses, including the perfect tense. Latin questions, oral and written, remain an important part of the course, as do the readings. There are class discussions and a paper on readings in English from Sophocles, Tacitus, and Cicero. Attendance is required.

#### **LATN 201 Intermediate Latin**

4c-01-4sh

More of the verb system is learned; while grammatical studies continue, more emphasis is placed on learning how to read short, intermediate-level selections from Latin literature. Oral and written questions continue. Ovid's Metamorphoses is the topic for class discussion and a paper. Liberal Studies credit is given.

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#### **LATN 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

#### LATN 351 Advanced Latin I

3c-01-3sh

Reviews grammar in depth; analyzes the structure of the language. Written themes are not required. Selections from Latin prose are read for knowledge of their content and for developing knowledge of the structure of the language. Offered only by individualized instruction.

#### LATN 352 Advanced Latin II

3c-01-3sh

A continuation of LATN 351. Selections are from poetry this semester.

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#### LATN 361 Development of Roman Culture and Literature

3c-0l-3sh

Latin poetry and history will be read to show the influence of political and social ideas on literature; emphasis will be on the contrast between the Republican and Imperial periods. Some reading will be in Latin; most will be in English. Offered only by individualized instruction.

#### **LATN 362 Latin Conversation and Composition**

3c-01-3sh

Aims at the ability to speak Latin on a conversational level and to write grammatically correct Latin prose. Offered only by individualized instruction.

#### **LATN 371 Survey of Latin Literature I**

3c-01-3sh

Comprehensive view of Latin literature from Ennius through the Augustan Age. Offered only by individualized instruction.

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#### **LATN 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

#### LATN 482 Independent Study

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office An opportunity to engage in an in-depth analysis of some topic dealing with the Latin language and culture through consultation with a faculty member. Approval is based on academic appropriateness and availability of resources.

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# **Learning Center**

The Learning Center Student Affairs Division

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

#### LRNC 070 LRNC 075 LRNC 090 LRNC 095 LRNC 150 LRNC 160 LRNC 170

#### LRNC 070 Reading Skills for College Study

3c-01-3sh

Designed to assist students in the development of college-level reading skills with emphasis on textbook reading. Includes literal and critical comprehension skills, vocabulary development, and reading efficiency. Carries institutional, nondegree credit, and attendance is required.

#### LRNC 075 Reading and Study Skills Applications

1c-0l-1sh

**Prerequisite:** LRNC permission

Assists students in the applications of college-level reading and study skills to content-area coursework. Intended for freshman students in poor academic standing who need additional and individualized guidance in the transfer of learning strategies into day-to-day reading and coursework. Students will participate in small-group instruction, as well as individual appointments with the instructor. Carries institutional, nondegree credit, and attendance is required.

#### LRNC 090 Introduction to College Math I

3c-01-3sh

**Prerequisite:** A student may not register for this course after successfully completing any course offered by the mathematics department without the written approval of the Learning Center director

Reviews basic computational skills and their applications. Includes operations with whole numbers, decimals, and fractions; the concepts of ratios, proportions, and percents; basic geometric principles; and an introduction to algebra. Carries institutional, nondegree credit, and attendance is required.

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#### LRNC 095 Introduction to College Math II

3c-01-3sh

**Prerequisite:** A student may not register for this course after successfully completing any course offered by the mathematics department, without written approval of the Learning Center director

Introduces beginning algebraic concepts, including signed numbers; rules and properties of equations; exponents; polynomials; factoring; algebraic fractions; graphs and linear equations, inequalities, and radical expressions. Carries institutional, nondegree credit, and attendance is required.

#### **LRNC 150 Educational Planning**

1c-01-1sh

Introduces students to the system of higher education and to skills that promote effective educational planning and

decision making. Includes the topics of history and purposes of higher education and its changing curricula; models for, and variables to consider in, decision making, goal setting, and educational planning. Note: Certain sections will be restricted to specific enrollment groups. (Offered as ED150 prior to 1997-98)

#### **LRNC 160 Learning Strategies**

1c-0l-1sh

Assists students to develop and use effective and efficient study strategies on a consistent basis. Students will examine their academic goals and implement study strategies to help achieve those goals. Includes the topics of goal setting and self-monitoring, learning styles, test preparation and test taking, lecture and textbook note taking, time management and concentration, and general strategies for learning. Students will be required to give evidence of application of the study strategies to other courses in which they are currently enrolled. Active participation in class meetings is expected. Note: Certain sections will be restricted to specific enrollment groups. (Offered as ED160 prior to 1997-98)

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#### **LRNC 170 Career Exploration**

1c-0l-1sh

Introduces students to the theoretical and practical framework with which to explore careers compatible with overall academic skills, aptitudes, and life goals. Students will examine the world of work, assess their interests and abilities, and make realistic decisions on academic majors and careers. Note: Certain sections will be restricted to specific enrollment groups. (Offered as ED170 prior to 1997-98)

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# **Liberal Studies**

# **Liberal Studies Program Academic Affairs Division**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

#### **LBST 499**

#### **LBST 499 Senior Synthesis**

3c-01-3sh

Prerequisite: 73 or more semester hours earned

Helps students understand and handle complex intellectual and social issues from multiple perspectives. A selection of topics, available each semester and summer session, is announced and described in the undergraduate course schedule. Students should schedule the course during the senior year or at least no earlier than the last half of the junior year. In order to broaden their experiences, students are encouraged to enroll in synthesis sections taught by instructors outside of the students' major fields.

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# Library

The University Libraries Academic Affairs Division

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

#### <u>LIBR 151 LIBR 201 LIBR 281 LIBR 481</u>

#### LIBR 151 Introduction to Library Resources

var-1sh

A lecture/laboratory course (fourteen one-hour classes) which provides an introduction to the resources of a university library, how those resources are organized, and how to use those resources effectively.

#### LIBR 201 Internet and Multimedia

3c-01-3sh

Prerequisite: <a href="BEDU/COSC/IFMG">BEDU/COSC/IFMG</a> 101 or prior exposure to word processing and electronic mail
The major focus will be on the evaluation of information and multimedia resources available on electronic networks when doing research in an area of one's choice. This information literacy course is designed for students to gain a more in-depth understanding of the information resources available electronically and of how to utilize them more effectively in communicating. Students will learn how to access and utilize these resources for two-way communications and support for decision making while incorporating selected elements in multimedia presentations of their own design. (BEDU/COMM/COSC/IFMG/LIBR 201 may be used interchangeably for D or F repeats and may not be counted for duplicate credit.)

#### **LIBR 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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#### **LIBR 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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# Management

#### **Department of Management**

**Eberly College of Business and Information Technology** 

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

MGMT 275 MGMT 281 MGMT 300 MGMT 305 MGMT 310 MGMT 311 MGMT 325 MGMT 330 MGMT 334 MGMT 350 MGMT 351 MGMT 400 MGMT 401 MGMT 402 MGMT 403 MGMT 406 MGMT 428 MGMT 432 MGMT 437 MGMT 438 MGMT 452 MGMT 454 MGMT 459 MGMT 481 MGMT 482 MGMT 492 MGMT 493 MGMT 495

**Note:** All courses at the 300 and 400 level are open only to students with junior or senior standing. All students, regardless of major or program affiliation, must meet course prerequisite requirements in order to enroll for a given course. Business majors (except those majoring in Business Education) who have not achieved Junior Standing are normally not permitted to enroll in 300- or 400-level courses.

#### **MGMT 275 Introduction to Entrepreneurship**

3c-01-3sh

**Prerequisites:** ACCT 201, ECON 121, sophomore status, only for nonmajors, permission by department Entrepreneurship is defined, common myths are discussed, and characteristics of entrepreneurs are identified. Basic characteristics of entrepreneurs are reviewed. Includes topics such as the psychology of entrepreneurship; economic and social aspects of entrepreneurship; history; techniques of purchasing a company; new venture initiation; and risk taking.

#### **MGMT 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

#### **MGMT 300 Human Resource Management**

3c-01-3sh

Prerequisite: PSYC 101

Designed to recognize and evaluate the application of behavioral science approaches in the study of human resource management. Topics include recruiting and selection, training, management development, performance evaluation, communications, wage and benefit programs, and management-labor relations.

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#### **MGMT 305 Organizational Staffing**

3c-01-3sh

Prerequisites: MGMT 310, MATH 214

Focuses on the theoretical, technical, administrative, and legal issues involved in the recruitment, selection, placement,

and promotion of individuals by organizations. Topics covered include human resource planning, job analysis, job description and specifications, recruitment, selection process, equal employment opportunity and affirmative action, reliability and validity of selection instruments and techniques, and contemporary issues in selection.

#### **MGMT 310 Principles of Management**

3c-01-3sh

Provides the student with an in-depth identification and understanding of the relevant theories, concepts, and principles underlying the management function.

#### **MGMT 311 Human Behavior in Organizations**

3c-01-3sh

**Prerequisite:** PSYC 101

Human problems of management. Basic ideas and theories from the behavioral sciences as they apply to human behavior in organizations are presented. Management solutions to problems resulting from individual-organization interaction are emphasized.

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#### **MGMT 325 Small Business Management**

3c-01-3sh

Prerequisites: MGMT 275, MKTG 320, MGMT 310

A survey course emphasizing those aspects of small business management not covered elsewhere in the student's program. Key topics include Real Estate, Site Selection, and Facilities Management; Purchasing Management, Vendor Relations, and Inventory Systems; Plant Security, Loss Control, Risk and Insurance Management; Human Resources Management, Employee Benefits, Motivation, and Leadership; Small Business Market Research, Customer Services Management, and Pricing. A review of other elements of the small firm's milieu is included as a necessary contextual element (e.g., planning, accounting, financing, law).

#### **MGMT 330 Production and Operations Management**

3c-01-3sh

**Prerequisites:** MATH 121, MATH 214, junior status, Eberly College of Business and Information Technology or approved major

A study of the process of converting an organization's inputs into outputs whether in goods-producing or service industries. Provides an overview of concepts, tools, and techniques used in management of production and operations function in organizations.

#### **MGMT 334 Quality Management**

3c-01-3sh

**Prerequisite:** MGMT 330

Emphasizes the philosophy that quality is an organizationwide phenomenon that influences every aspect of its operations. An overview of current quality management philosophies and tools and techniques for managing quality in manufacturing and services.

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#### **MGMT 350 International Business**

3c-01-3sh

**Prerequisite:** MGMT 310

A study of the international dimensions of business and the critical environmental and organizational factors that affect managerial approaches in the international arena. Focuses upon the management problems stemming from the movement of goods, human resources, technology, finance, or ownership across international boundaries. (Also offered as MKTG 350)

#### **MGMT 351 International Management**

3c-01-3sh

**Prerequisite:** MGMT 310

Provides the student with a general foundation on managing multinational corporations (MNCs). Examines the macroand structural-level issues of MNCs. Focuses on planning, organization structure, managerial decision making, and human resource management in global structures and differences between MNCs and domestic organizations.

#### **MGMT 400 Compensation Management**

3c-01-3sh

**Prerequisite:** MGMT 300

Studies the policies and programs that help managers design and administer compensation systems for private and public sector enterprises. Includes motivation theories and practice designing of compensation systems.

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#### **MGMT 401 Management Development and Training**

3c-01-3sh

Prerequisites: MGMT 300, MGMT 310

Principles, problems, and procedures in planning, organizing, directing, and controlling all aspects of training and development programs in a business enterprise. Methods of improving and development of managerial skills are emphasized.

#### MGMT 402 Seminar in Human Resource Management

3c-01-3sh

**Prerequisites:** MGMT 300, graduating senior

An integrative course in Human Resource Management. Considers current issues in human resource management literature and contemporary topics in the human resource management field using case studies.

#### **MGMT 403 Small Business Planning**

3c-01-3sh

Prerequisites: MGMT 325, ACCT 300, BEDU/COSC/IFMG 101

Integrates the content of much of the business core and relates it to the business planning for small businesses and entrepreneurial efforts. The student will be introduced to the concepts which will support the development of an effective business plan.

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#### **MGMT 406 Human Resources Management Research**

3c-01-3sh

Prerequisites: **QBUS 215**, MGMT 300

The study of the nature of research questions, research methods, research design, collection, analysis, and interpretation of data. Focuses on design, development, implementation, and evaluation of Human Resources Management programs. Applications in employee selection, performance measurement, work attitudes and motivation, employee training, and development areas.

#### **MGMT 428 Seminar in Management**

3c-01-3sh

**Prerequisites: MGMT 310** 

An integrative course in management. Considers current literature in the field and contemporary issues in management using case studies.

#### **MGMT 432 Business and Society**

3c-01-3sh

An overview of the interactions between business and the larger social system in which it operates. Considers the problem, solutions, and future directions of societal issues and their relationships to the business environment. Topics discussed include consumerism, the morality of advertising, self-regulation, pollution and ecology, overpopulation,

government regulation, and the social and ethical responsibilities of business and industry. (Also offered as MKTG 432; may not be taken for duplicate credit)

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#### **MGMT 437 Operations Management System**

3c-01-3sh

**Prerequisite:** MGMT 330

A theoretical and practical understanding of manufacturing and service planning and control, including systems modeling, purchasing and sourcing, information and control including MPS, MRP, and MRP-II, scheduling, etc. Manufacturing and service technologies and trends are also emphasized. Computer applications are used for understanding the interrelationships between various components of operations system.

#### **MGMT 438 Seminar in Operations Management**

3c-01-3sh

Prerequisites: MGMT 330, senior standing

An integrative course in operations management. Considers and analyzes the current literature and contemporary topics in the area of providing service and producing goods. Case studies and field trips are used to provide students with a comprehensive knowledge of the theories, current practices, and trends in several topical areas of operations management. Students will learn to present their findings and analyses in a professionally written format.

#### **MGMT 452 Comparative Management**

3c-01-3sh

**Prerequisite:** MGMT 350

The study of the similarities and differences among managers, management practices, and organizations in different cultures. A variety of comparative management systems, models, and theories are presented, and research findings are examined.

#### **MGMT 454 International Competitiveness**

3c-31-3sh

**Prerequisite: MGMT 350** 

The study of the most important challenges that face nations and firms alike in gaining or restoring competitiveness. Focuses on factors that determine the success of nations and their firms in highly dynamic world markets. Various theories, models, and cases dealing with competitive advantage are examined.

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#### **MGMT 459 Seminar in International Management**

3c-01-3sh

Prerequisites: MGMT 454, senior standing

An analysis of recent literature and developments related to global business issues such as strategic alliances, human resource management in global environments, global assignments, Japanese business system, multinational corporations in the world economy.

#### **MGMT 481 Special Topics in Management**

var-1-3sh

Covers advanced, innovative, or exploratory topics and disciplines within management. Specific content items developed by instructor. Credits may be applied to either required (by permission of department chairperson) or free electives in a student's program.

#### **MGMT 482 Independent Study**

var-3sh

**Prerequisite:** Prior approval through adviser, faculty member, department chairperson, dean, and provost's office Individual research and analysis of contemporary problems and issues in a concentrated area of study under the

guidance of a senior faculty member. Approval is based on academic appropriateness and availability of resources.

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#### MGMT 492 Small Business/Entrepreneurship Internship

var-3-12sh

**Prerequisites:** MGMT 403, permission of department chairperson, 2.75 cumulative GPA, all other requirements of the Eberly College of Business and Information Technology

Involves practical entrepreneurial experience of on-site consulting with small business firms. Students will generally work for a semester on functionally related topics in accounting, finance, marketing, and MIS or on general topics such as business planning, forecasting, policy, and general management.

#### **MGMT 493 Management Internship**

var-3-12sh

Practical experience to develop knowledge and skills in the application of theory to actual problems in a nonclassroom setting. A maximum of 3sh of internship in the student's major may be applied toward the management and human resource management major area elective requirements. Additional internship credit must be used as free electives only. Admission only by permission of the department chairperson and dean, Eberly College of Business and Information Technology.

#### **MGMT 495 Business Policy**

3c-01-3sh

**Prerequisites:** Completion of all Business Core requirements or permission; graduating seniors A capstone case analysis course designed to give the student practice in applying business theories to the solution of management problems. An analysis of how top management determines strategy and policy and influences the philosophy and character of the company. Develops in the student a general management viewpoint that integrates the various functions of the organization.

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# Marine ScienceMarine Science Consortium/Biology Department

#### **College of Natural Sciences and Mathematics**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

MRSC 110 MRSC 211 MRSC 212 MRSC 221 MRSC 241 MRSC 250 MRSC 260 MRSC 270 MRSC 280 MRSC 281 MRSC 331 MRSC 342 MRSC 343 MRSC 344 MRSC 345 MRSC 362 MRSC 364 MRSC 420 MRSC 431 MRSC 459 MRSC 481 MRSC 482 MRSC 500

#### MRSC 110 Introduction to Oceanography

var-3sh

An introduction to physical, chemical, biological, and geological aspects of oceans and methods and techniques of oceanography. Lab emphasis placed on at-sea assignments.

#### MRSC 211 Field Methods in Oceanography

var-3sh

**Prerequisite:** MRSC 110 or consent of instructor

A familiarization with dynamic marine environment involving use and application of oceanographic instruments and sampling devices.

#### **MRSC 212 Navigation**

var-3sh

**Prerequisite:** Four years' high school math or equivalent or consent of the instructor

Covers navigation, i.e., the art and science of safely bringing a vessel from one position to another in a body of water. Course divided into (1) brief historical background; (2) navigation within sight of land, i.e., piloting; (3) navigation in the open sea, including electronic navigation methods.

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#### **MRSC 221 Marine Invertebrate Zoology**

var-3sh

**Prerequisite:** One year of biology or consent of instructor

A study of marine invertebrates with emphasis on development, reproduction, structure, function, and classification of selected marine organisms.

#### **MRSC 241 Marine Biology**

var-3sh

**Prerequisites:** Botany and zoology or consent of instructor

A study of plant and animal life in marine environment with emphasis placed upon physical and chemical factors affecting biota.

#### MRSC 250 Management of Wetland Wildlife

var-3sh

The ecology and management of wetland wildlife, particularly of freshwater marshes and saltwater marshes. Special emphasis on ecosystem approach.

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#### **MRSC 260 Marine Ecology**

var-3sh

**Prerequisite:** One year of biology or consent of instructor

A course in ecology of marine organisms.

#### MRSC 270 Scuba Diving

var-3sh

**Prerequisites:** Swimming ability and good health. (A standard diving physical form will be mailed to students electing the course.)

Students who complete course will receive a National Association of Underwater Instructors Diver Certificate.

#### MRSC 280 Marine Field Biology

var-3sh

**Prerequisites:** None

An introduction to basic principles of ecology and natural history of selected plants and animals in terrestrial, freshwater, and marine environments. Suitable for non-Science majors.

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#### **MRSC 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

#### **MRSC 331 Chemical Oceanography**

var-3sh

**Prerequisites:** MRSC 110 and one year of chemistry

Treatment of oceanic chemical phenomena by sampling and laboratory analysis techniques.

#### **MRSC 342 Marine Botany**

var-3sh

In-the-field studies and laboratory analysis by instrumentation of marine and marine fringe plants in the Middle Atlantic Coast as exemplified by those found in the Cape Henlopen, Delaware, and Wallops Island, Virginia, areas.

#### MRSC 343 Marine Ichthyology

var-3sh

**Prerequisites:** General Biology and/or consent of the instructor

A study of fishes. Specimens collected along Eastern Seaboard by students will be used to illustrate anatomy, physiology, and systematics of this major vertebrate group. Field collections will give student opportunity to observe relationships of these animals to the biotic and physical environment.

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#### **MRSC 344 Anatomy of Marine Chordates**

var-3sh

**Prerequisite:** Six hours of biology including General Zoology

Designed to familiarize students with various aspects of marine chordates.

#### **MRSC 345 Marine Ornithology**

var-3sh

Prerequisite: One year of biology or consent of the instructor

Introduces student to avian fauna of seacoast and enables comparison with inland species. In addition to field work providing visual and vocal identification, lecture material will include information on distribution, behavior, physiology, and anatomy of birds.

#### **MRSC 362 Marine Geology**

var-3sh

Prerequisites: MRSC 110 and physical geology or consent of instructor

Studies of structural and sedimentary environments of continental shelf, slopes, and ocean basins and crustal structure of the earth and its relation to sedimentary record and geologic history of oceans.

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#### MRSC 364 Physical Oceanography

var-3sh

**Prerequisites:** MRSC 110, one year of physics, one semester of calculus, and permission of the instructor Includes consideration of physical properties, mass and energy budgets, theory of distribution of variables; cause, nature, measurement, analysis, and prediction of tides, currents, and waves; and basic instrumentation in the field.

#### **MRSC 420 Marine Micropaleontology**

var\_3ch

**Prerequisites:** One year of geology and biology or consent of instructor

Deals with modern, living representatives of microorganisms important in fossil record with particular emphasis placed on taxonomy, morphology, evolution, and ecologic affinities of representative groups.

#### **MRSC 431 Ecology of Marine Plankton**

var-3sh

**Prerequisite:** One year of biology

A study of phytoplankton and zooplankton in marine and brackish environments. Qualitative and quantitative comparisons made between the planktonic populations of various types of habitats in relation to primary and secondary productivity.

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#### MRSC 459 Coastal Geomorphology

var-3sh

**Prerequisite:** One year of geology

A study of coastal geomorphology with emphasis on Late Cenozoic and Pleistocene sea-level changes in response to worldwide continental glaciation. The student will participate in field studies of Pleistocene deposits and the weathering of these deposits.

#### **MRSC 481 Special Topics**

var-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are offered primarily for upper-level undergraduate students.

#### **MRSC 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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#### **MRSC 500 Problems in Marine Science**

var-3sh

Graduate students or undergraduate students with advanced standing registering for this course may elect either of the following options.

- **Option A:** Take a 200, 300, or 400 level MRSC course and complete, in addition to regular course requirements, a project in the area under direction of instructor.
- **Option B:** Complete an independent research project. A research proposal must be approved by the Academic Committee of M.S.C. in advance of the time research is to be undertaken.

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# **Marketing**

#### **Department of Marketing**

**Eberly College of Business and Information Technology** 

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

MKTG 320 MKTG 321 MKTG 350 MKTG 351 MKTG 420 MKTG 421 MKTG 422 MKTG 430 MKTG 431 MKTG 432 MKTG 433 MKTG 434 MKTG 435 MKTG 436 MKTG 437 MKTG 481 MKTG 482 MKTG 493

Note: All courses at the 300 and 400 level are open only to students with junior or senior standing. All students, regardless of major or program affiliation, must meet course prerequisite requirements in order to enroll for a given course. Business majors (except those majoring in Business Education) who have not achieved Junior Standing are normally not permitted to enroll in 300- or 400-level courses.

#### **MKTG 320 Principles of Marketing**

3c-01-3sh

**Prerequisite:** ECON 122

A study of those activities necessary to the design, pricing, promotion, and distribution of goods and services for use by organizations and ultimate consumers.

#### **MKTG 321 Consumer Behavior**

3c-01-3sh

Prerequisites: MKTG 320 and PSYC 101

A survey of noteworthy contributions of behavioral science and research on consumer purchasing and decision-making process, with particular attention to formal and informal influence patterns.

#### **MKTG 350 International Business**

3c-01-3sh

**Prerequisite:** MGMT 310

A study of the international dimensions of business and the critical environmental and organizational factors that affect managerial approaches in the international arena. Focuses upon the management problems stemming from the movement of goods, human resources, technology, finance, or ownership across international boundaries. (Also offered as MGMT 350)

#### **MKTG 351 Self-Marketing**

1c-0l-1sh

**Prerequisite:** Junior standing (as per credits earned)

The focus is on the development of both long-term and short-term self-marketing plans and self-marketing packages. Theories of managerial marketing, professional selling, market research, and advertising applied to self-marketing in order to prepare students to seek internship experience.

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#### Prerequisites: MKTG 320 and MKTG 321

An analysis of marketing and operational problems and policies involved in planning, organizing, coordinating, and controlling a total marketing program.

#### **MKTG 421 Marketing Research**

3c-01-3sh

Prerequisites: MKTG 320 and OBUS 215

Nature, methods, analysis, and application of present-day marketing research techniques utilized in the solution of practical marketing problems.

#### **MKTG 422 Seminar in Marketing**

3c-01-3sh

**Prerequisites:** MKTG 420 and MKTG 421, graduating senior

A terminal course designed for majors in marketing; considers current literature in the field, case problems pertaining to the total marketing effort, and current problems of actual companies.

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#### **MKTG 430 International Marketing**

3c-01-3sh

**Prerequisite:** MKTG 320

International marketing and markets are analyzed. Special consideration is given to the significance of government regulations; organization structures of export and import enterprises; and credit policies.

#### **MKTG 431 Industrial Marketing**

3c-01-3sh

**Prerequisite:** MKTG 420

Concerned with the major activities involved in the marketing of industrial goods and services, including the industrial marketing system, marketing information needs of the industrial firm, industrial marketing implementation and control, and channel, pricing, product, and promotional strategies for industrial goods.

#### **MKTG 432 Business and Society**

3c-01-3sh

An overview of the interactions between business and the larger social system in which it operates. Considers the problems, solutions, and future directions of societal issues and their relationships to the business environment. Topics discussed include consumerism, the morality of advertising, self-regulation, pollution and ecology, overpopulation, government regulation, and the social and ethical responsibilities of business and industry. (Also offered as MGMT 432; may not be taken for duplicate credit)

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#### **MKTG 433 Advertising**

3c-01-3sh

Prerequisite: MKTG 320

An introduction to the principles, practices, and creations of advertising. Use of various media and legal, economic, social, and ethical aspects of advertising are also considered.

#### **MKTG 434 Marketing Logistics**

3c-01-3sh

**Prerequisites:** Junior/senior standing, MKTG 320 and MGMT 330

The focus is on planning, organizing, and controlling the marketing logistics function. In addition to the acquisition and application of management science methods, students will integrate and apply previously gained knowledge to analyze and solve complex marketing logistics problems. Areas of major concentration include facility location, transportation, inventory management, and customer service.

#### MKTG 435 Professional Selling and Sales Management

3c-01-3sh

Prerequisite: MKTG 320

Introduces students to the role and nature of modern personal selling in marketing. Theory and practice of personal selling process, sales planning, delivering sales presentations, and relationship marketing are emphasized. Basics of managing sales force including territory management, recruiting, training, and compensating sales force are also covered.

#### **MKTG 436 Retail Management**

3c-01-3sh

**Prerequisite: MKTG 320** 

Introduces students to all facets of retailing including the history of retailing, retail theories, and decision-making in retailing framework.

#### **MKTG 437 Services Marketing**

3c-01-3sh

**Prerequisite:** MKTG 320

Focuses on current theories and applications of marketing techniques in the fast-growing area of services in the business, government, and nonprofit sectors. Emphasis placed on characteristics of services and their marketing implications and formulation and implementation of marketing strategies for service firms.

#### **MKTG 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Covers advanced, innovative, or exploratory topics and disciplines within marketing. Specific content items developed by instructor. Credits may be applied to either required (by permission of departmental chairperson) or free electives in a student's program. Special topics numbered 481 are primarily for upper-level undergraduate students.

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#### **MKTG 482 Independent Study**

var-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office. Approval is based on academic appropriateness and availability of resources.

Individual research and analysis of contemporary problems and issues in a concentrated area of study under the guidance of a senior faculty member.

#### **MKTG 493 Marketing Internship**

var-3-12sh

Practical experience in the marketing field to develop knowledge and experience in the practical application of theory to actual problems in a nonclassroom situation. A maximum of 3sh of internship in the student's major may be applied toward the marketing major-area elective requirements. Additional internship credit must be used as free electives only. Admission only by permission of the department chairperson and the dean, Eberly College of Business and Information Technology.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# **Mathematics**

**Department of Mathematics College of Natural Sciences and Mathematics** 

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

MATH 100 MATH 101 MATH 105 MATH 110 MATH 117 MATH 121 MATH 122 MATH 123 MATH 124 MATH 127 MATH 128 MATH 151 MATH 152 MATH 171 MATH 214 MATH 216 MATH 217 MATH 219 MATH 227 MATH 241 MATH 271 MATH 272 MATH 281 MATH 317 MATH 320 MATH 342 MATH 350 MATH 353 MATH 355 MATH 363 MATH 364 MATH 366 MATH 371 MATH 417 MATH 418 MATH 420 MATH 421 MATH 422 MATH 423 MATH 424 MATH 425 MATH 427 MATH 445 MATH 446 MATH 447 MATH 451 MATH 452 MATH 453 MATH 454 MATH 455 MATH 456 MATH 457 MATH 458 MATH 459 MATH 460 MATH 465 MATH 471 MATH 476 MATH 477 MATH 480 MATH 481 MATH 482 MATH 490 MATH 493

#### **MATH 100 Intermediate Algebra**

3c-01-3sh

**Note:** May not take MATH 100 after successfully completing MATH 105 or 110 or a calculus course without the written approval of the mathematics department chairperson.

Basic course in algebra including factoring, exponents and radicals, systems of linear equations, complex fractions, and inequalities. Designed for those students who lack the basic algebraic skills required in MATH 105 or 110. Will not meet Liberal Studies math requirements.

#### **MATH 101 Foundations of Mathematics**

3c-01-3sh

Introduces logic and mathematical way of analyzing problems; develops an appreciation for nature, breadth, and power of mathematics and its role in a technological society; introduces useful mathematics or mathematics related to student interest. Possible topics include logic, problem solving, number theory, linear programming, probability, statistics, intuitive calculus, introduction to computers, mathematics of finance, game theory.

#### MATH 105 College Algebra

3c-01-3sh

Prerequisite: MATH 100 or equivalent high school preparation

**Note:** May not take MATH 105 after successfully completing a calculus course or MATH 110 without the written approval of the mathematics department chairperson.

Prepares students for the study of calculus for business, natural, and social sciences. Topics include a detailed study of polynomial, exponential, and logarithmic functions. Designed primarily for students planning to take MATH 121 Calculus for Business, Natural, and Social Sciences.

#### **MATH 110 Elementary Functions**

3c-01-3sh

Note: May not take MATH 110 after successfully completing a calculus course without the written approval of the mathematics department chairperson.

For students not prepared to begin the study of calculus; topics include polynomial, exponential, logarithmic, and trigonometric functions.

#### **MATH 117 Principles of Mathematics**

3c-01-3sh

An introduction to the nature of mathematics, designed specifically as a first course for mathematics education majors to experience several facets of mathematics including deduction, induction, problem solving, discrete mathematics, and theory of equations. Enrollment open to Secondary Mathematics Education majors only.

#### MATH 121 Calculus I for Business, Natural, and Social Sciences

4c-01-4sh

**Note:** May not take MATH 121 after successfully completing another calculus course without the written permission of the mathematics department chairperson.

**Prerequisite:** MATH 105 or MATH 110 or equivalent high school preparation

Introduces non-Math major to analytic geometry, elementary functions (including logarithmic and exponential functions), central ideas of the calculus (limit, derivative, and integral), applications of derivatives to business, social, and natural sciences.

#### MATH 122 Calculus II for Business, Natural, and Social Sciences

4c-01-4sh

Applications of integrals to business, natural, and social sciences, functions of several variables, trigonometric functions, sequences and series, numerical methods, differential equations.

#### MATH 123 Calculus I for Physics, Chemistry, and Mathematics

4c-01-4sh

**Prerequisites:** High school algebra, geometry, and trigonometry

Functions, limits, continuity, derivatives, application of the derivative, integral, and applications of the integral. (Trigonometric and inverse trigonometric functions are included throughout the course.)

#### MATH 124 Calculus II for Physics, Chemistry, and Mathematics

4c-01-4sh

Logarithmic and exponential functions, techniques of integration, sequences and series, differential calculus of functions of several variables, multiple integrals, line integrals, surface integrals, differential equations with application to physical problems.

#### **MATH 127 Calculus I**

4c-01-4sh

**Prerequisite:** Permission of the mathematics department

The first in a three-course series of courses which stresses the theory of the calculus as well as the application in problem solving. Topics to be included are real numbers, an introduction to analytic geometry, functions, limits and continuity, derivatives and applications, the differential and antidifferentiation.

#### **MATH 128 Calculus II**

4c-01-4sh

**Prerequisite:** Permission of the mathematics department

The second in a three-course series of courses stresses the theory of calculus as well as the application in problem solving. Topics to be included are definite integrals and applications, logarithmic and exponential functions, trigonometric and inverse trigonometric functions, polar coordinates, hyperbolic functions, indeterminate forms, improper integrals, and Taylor's formula.

#### MATH 151 Elements of Mathematics I

3c-01-3sh

Topics included are sets, concepts of logic, mathematical systems, systems of numeration, developing the set of integers, rational numbers, and real numbers.

#### **MATH 152 Elements of Mathematics II**

3c-01-3sh

#### **Prerequisite:** MATH 151

Topics included are sentences in one variable, sentences in two variables, nonmetric geometry, metric geometry, coordinate geometry, introduction to statistics and probability, computers, and calculators..

#### MATH 171 Introduction to Linear Algebra

3c-01-3sh

An introduction to vector spaces, linear transformations, determinants, and matrix algebra. Topics are presented in a direct and intuitive approach.

#### MATH 214 Probability and Statistics for Business Majors

3c-01-3sh

Designed to study the methods of describing data, probability theory, discrete and continuous random variables, sampling distributions, estimation and tests of hypothesis for means, proportions and variance, and simple linear regression and correlation.

#### MATH 216 Probability and Statistics for Natural Sciences

4c-01-4sh

**Prerequisite:** MATH 121

(For non-Math majors) Frequency distributions, measures of central tendency, variation, elementary probability, sampling, estimation, testing hypotheses, correlation, and regression; emphasis on applications as opposed to theoretical development of topics.

#### **MATH 217 Probability and Statistics**

3c-01-3sh

(For non-Math majors) Frequency distributions, measures of central tendency, variation, elementary probability, sampling, estimation, testing hypotheses, correlation, and regression; emphasis on applications as opposed to theoretical development of topics.

#### **MATH 219 Discrete Mathematics**

3c-01-3sh

Prerequisites: COSC 110, and MATH 123, 127, or MA122

Topics include set algebra, mappings, relations, semigroups, groups, directed and undirected graphs, Boolean algebra, and propositional logic, with examples and applications of these to various areas of computer science. Emphasis placed on developing an intuitive understanding of basic structures rather than formal theories and influence of these topics on theory and practice of computing.

#### **MATH 227 Calculus III**

4c-01-4sh

**Prerequisite:** Permission of the mathematics department

The third in a three-course series of courses which stresses the theory of calculus as well as the application in problem solving. Topics to be included are vectors in the plane, parametric equations, vectors in three-dimensional space, solid analytic geometry, differential calculus of functions of several variables, directional derivatives, gradients, applications of partial derivatives, and infinite series.

#### **MATH 241 Differential Equations**

3c-01-3sh

Prerequisites: MATH 122, MATH 124, or MATH 227

Emphasis is placed on techniques of solution and elementary physical applications. A thorough study is made of differential equations classified as order one-degree one, linear, and nonhomogeneous. Solution techniques involving reduction of order techniques, the differential operator, and infinite series are introduced.

#### MATH 271 Introduction to Mathematical Proofs I

3c-01-3sh

#### **Prerequisites:** MATH 123 and MATH 171

Gives student basic ideas of necessary to prove results in mathematics. Includes but is not limited to logic of mathematics, basic methods of proof, algebra of sets, equivalence relations and partitions of sets, functions, and mathematical induction.

#### MATH 272 Introduction to Mathematical Proofs II

3c-01-3sh

**Prerequisites:** MATH 124 and MATH 271 with a grade of C or better

A further study of the basic ideas of contemporary mathematics. Topics include but are not limited to mathematical induction, cardinality of sets, relations, methods of proof in number theory, analysis, and algebra.

#### **MATH 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

#### **MATH 317 Introduction to Probability and Statistics**

3c-01-3sh

**Prerequisites:** MATH 152, Elementary Education concentration

Introduces students to elementary concepts of probability and statistics which will enable them to analyze data, make predictions, and determine which concepts may be used with children.

#### **MATH 320 Mathematics for Early Childhood**

3c-01-3sh

**Prerequisites:** MATH 151, Early Childhood major

Studies child-centered, activity-oriented mathematics programs for early childhood education. Focuses on helping children develop understanding and insight into basic concepts of mathematics through the use of manipulative materials. Topics include pre-number activities, number activities, numeration, operations on whole numbers, estimation, rational numbers, geometry, measurement, probability, statistics, and problem solving.

#### **MATH 342 Advanced Mathematics for Applications**

4c-01-4sh

**Prerequisite:** MATH 241

Deals with the application of mathematics to problems of science. Emphasis is placed on the three phases of such an application and on the development of skills necessary to carry out each step: (a) translation of the given physical information to a mathematical model; (b) treatment of the model by mathematical methods; (c) interpretation of the mathematical result in physical terms. Topics included are vector calculus, integral theorems, Fourier series, partial differential equations, and the Laplace transformation.

#### **MATH 350 History of Mathematics**

3c-01-3sh

**Prerequisite:** MATH 122 or MATH 124 or permission of instructor

Development of the central concepts of mathematics from ancient times up to the development of calculus in the seventeenth century. Mathematical concepts will be placed in historical perspective. The use of the history of mathematics as a pedagogical tool and its relationship to other sciences will be addressed.

#### **MATH 353 Theory of Numbers**

3c-01-3sh

**Prerequisite:** MATH 271 with a C or better grade

Divisibility, congruences, primitive roots, number theoretic functions, diophantine equations, continued fractions, quadratic residues.

#### **MATH 355 Foundations of Geometry I**

3c-01-3sh

**Prerequisites:** MATH 171, MATH 271 with a C or better grade

Studies various groups of transformations and geometries associated with these groups in the Euclidean plane. The Euclidean Similarity and affine and projective groups of transformations are studied.

#### MATH 363 Mathematical Statistics I

3c-01-3sh

Prerequisites: MATH 122, MATH 124, or MATH 216

Probability theory necessary for an understanding of mathematical statistics is developed. Applications of set theory to models, combinations and permutations, binomial, Poisson and normal distributions, expected values, and moment generating functions.

#### **MATH 364 Mathematical Statistics II**

3c-01-3sh

**Prerequisite:** MATH 363

Multivariate distributions, change of variable technique, chi-square distribution, estimation, confidence intervals, hypothesis testing, contingency tables, goodness of fit. Practical applications are used to aid in the development.

#### **MATH 366 Preparation for Actuarial Examinations**

1c-0l-1sh

**Prerequisites:** MATH 171 and calculus sequence

Provides an introduction to the actuarial profession and helps the student prepare for the first actuarial examinations. The examination preparation consists of studying sample actuarial examinations and related material. The student is required to take the actuarial examination. The student should be aware that for most students, considerable study beyond the requirements of this 1sh course will be required in order to pass the actuarial examinations.

#### **MATH 371 Linear Algebra**

3c-01-3sh

**Prerequisites:** MATH 171, MATH 271 with a C or better grade

Vector spaces and linear transformations are studied in a theoretical setting. Also, canonical forms and multilinear algebra are studied.

#### **MATH 417 Statistical Applications**

3c-01-3sh

**Prerequisites:** MATH 214, MATH 216, or MATH 217 (for non-Math majors)

Using computer programs, a wide array of statistical procedures for educational research workers will be explored. Basic concepts of statistical inference and prediction will be reviewed, including regression analysis and prediction, hypothesis testing, analysis of variance and covariance, and partial and multiple correlation. Emphasis is on use of the computer and interpretation of computer printouts, along with understanding techniques employed. No computer knowledge is necessary.

#### MATH 418 Sampling Survey Theory and Its Application

3c-01-3sh

Prerequisites: (For non-Math majors) MATH 214, MATH 216, or MATH 217

Directed to the student who is or will be doing quantitative research, commissioning large-scale surveys, and evaluating the results. Sampling techniques and statistical principles underlying their use will be introduced. Consideration to the practical problems associated with implementation.

#### MATH 420 Patterns and Functions for Elementary and Middle School Teachers

3c-01-3sh

**Prerequisites:** MATH 152; Elementary Education concentration

Examines the function concept as applied to elementary real number functions and graphing techniques for these functions. Topics include real number functions such as absolute value, step, linear, quadratic, and other polynomial

functions, trigonometric and other periodic functions, exponential logarithmic functions, and all other inverse functions. Students will examine curricular materials that develop function concepts in Grades K-8.

#### **MATH 421 Advanced Calculus I**

3c-01-3sh

**Prerequisites:** MATH 124 and MATH 272 with a C or better grade

A study of set theory, real number system, functions topology of Cartesian space, sequences, convergence and uniform convergence, continuity, and uniform continuity.

#### MATH 422 Advanced Calculus II

3c-01-3sh

**Prerequisite:** MATH 421

Includes the study of convergence sequences in Rn, global properties of continuity, uniform continuity, differentiation of Rn, Riemann integrals, and infinite series.

#### MATH 423-424 Complex Variable I and II

each 3c-0l-3sh

**Prerequisite:** MATH 124 or MATH 227

An introduction to the theory of functions of a complex variable: topics included are elementary functions, analytic functions, conformal mapping, integration, series, and application.

#### MATH 425 Applied Mathematical Analysis I

3c-01-3sh

Prerequisites: Calculus sequence, introductory linear algebra, or permission of instructor

Provides the necessary background for an understanding of mathematical programming, proofs of convergence of algorithms, convexity, and factorable functions. Also develops necessary concepts in matrix theory which are required to develop efficient algorithms to solve linear and nonlinear programming models.

#### **MATH 427 Introduction to Topology**

3c-01-3sh

**Prerequisite:** MATH 272 with a C or better grade

A study of sets, functions, continuity, compactness, the separation of axioms, and metric spaces; application of topology to analysis is demonstrated.

#### **MATH 445 Programming Models in Operations Research**

3c-01-3sh

**Prerequisites:** Two-semester sequence of calculus and MATH 171 or permission of instructor

Development of deterministic mathematical models for managerial and social sciences with relevant computational techniques.

#### MATH 446 Probabilistic Models in Operations Research

3c-01-3sh

**Prerequisites:** Two-semester sequence of calculus, MATH 363

Development of probabilistic mathematical models for managerial and social sciences with relevant computational techniques.

#### **MATH 447 Simulation Models**

3c-01-3sh

**Prerequisites:** Completion of the calculus sequence; background in statistics and probability, and familiarity with concepts of programming (knowledge of a particular programming language not required)

Considers the types of models that are basic to any simulation and methods for building and using such models. It includes discrete and continuous system simulations, their applications, and an introduction to SLAM II (Simulation Language for Alternative Modeling).

#### **MATH 451 Numerical Methods for Supercomputers**

3c-01-3sh

Prerequisites: MATH 121 and MATH 122, or MATH 123 or MATH 127, MATH 171, COSC 250

Supercomputers make use of special computer architectures—vector and parallel processors—in order to achieve the fastest processing speed currently available. Students will be introduced to these features and will learn how numerical algorithms can be constructed to exploit supercomputers' capabilities. Students will gain practical experience in programming for the Cray, YMP, in incorporating existing scientific software packages into user-written programs, in submitting remote jobs to the Pittsburgh Supercomputer Center, and in producing animated graphical output to summarize the typically large volume of output data generated by large scientific programs. (Also offered as COSC 451; may not register for duplicate credit)

#### **MATH 452 Seminar in Teaching Algebra**

var-1-4sh

#### **MATH 453 Seminar in Teaching Geometry**

var-1-4sh

#### **MATH 454 Seminar in Teaching General Mathematics**

var-1-4sh

Designed for pre-student teacher. Students in each class will gain insights into the problems in teaching each topic and become aware of the materials available and methods of instruction geared to the special type of student. Education majors only.

#### MATH 455 Seminar in Teaching Probability and Statistics

1c-0l-1sh

Designed for the pre-student teacher. Students in each class will gain insights into the problems in teaching each topic and become aware of the materials available and methods of instruction geared to the secondary mathematics student. Education majors only.

#### MATH 456 Geometry for Elementary and Middle School Teachers

3c-01-3sh

**Prerequisites:** MATH 152, Elementary Education concentration

Students become acquainted with an informal, intuitive approach to geometry. Activities and materials for teaching geometrical concepts to children are an integral part of the course.

#### MATH 457 Number Theory for Elementary and Middle School Teachers

3c-01-3sh

**Prerequisites:** MATH 152, Elementary Education concentration

An introduction to topics of elementary number theory including divisibility, prime numbers, factorization, modular arithmetic, problem solving, and place of number theory in the elementary school curriculum. Students will examine many number theory activities which can help to strengthen skills with basic facts in an interesting, nonroutine setting.

#### MATH 458 Logic and Logical Games for Elementary and Middle School Teachers

3c-01-3sh

**Prerequisites:** MATH 152, Elementary Education concentration

An introduction to some of the basic ideas, terminology, and notation of mathematical logic and Boolean algebra as well as games of strategy that involve logic. In addition, an investigation of how logic is taught and used in various programs for the elementary school.

#### MATH 459 Technology in Elementary and Middle School Mathematics Instruction

3c-01-3sh

**Prerequisites:** MATH 152, Elementary Education concentration

Intended to develop the knowledge, skills, and perspectives required for using educational technology in teaching mathematics at the elementary and middle school levels. Participants will have hands-on experiences with technology.

#### **MATH 460 Technology in Mathematics Instruction**

3c-01-3sh

#### Prerequisite: COSC 205

Designed to provide preservice mathematics teachers with expertise in instructional technology for teaching mathematics at the secondary level. Pedagogical and content knowledge are integrated within the context of technology and current reforms.

#### **MATH 465 Topics in Statistics**

3c-01-3sh

Prerequisite: MATH 364

Correlation and regression from applied and theoretical points of view, bivariate and multivariate normal distribution, analysis of variance, nonparametric methods. Practical problems involving statistical techniques and use of computer statistical packages. Knowledge of computer programming is not required.

#### **MATH 471 Basic Concepts of Algebra**

3c-01-3sh

**Prerequisites:** MATH 152, Elementary Education concentration

Concepts of basic algebraic structures such as group, ring, integral domain, field, and vector space are studied within the context of the mathematical maturity of the student. Other topics include relations and functions, polynomials and polynomial equations, systems of equations, and inequalities. Consideration given to development of these concepts in the mathematics curriculum.

#### MATH 476 Abstract Algebra I

3c-01-3sh

**Prerequisite:** MATH 272 with a C or better grade

Development of theory of integral domains, fields, rings, and groups; designed to develop student's power to think for himself or herself and to improve ability to construct formal proofs.

#### MATH 477 Abstract Algebra II

3c-01-3sh

**Prerequisite:** MATH 476

Designed to have student continue study of algebra by use of axiomatic method; Euclidean domains; polynomial domains and extension fields included; interrelationships between these structures and simpler structures, particularly groups and rings, are developed as in study of Galois group of a polynomial and in an introduction to Galois theory.

#### **MATH 480 Senior Seminar**

1c-0l-1sh

**Prerequisites:** Senior standing in mathematics major

To assess the effectiveness of the mathematics curriculum and to provide mathematics majors with a culminating mathematical experience.

#### **MATH 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

#### **MATH 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

#### **MATH 490 Independent Study**

#### **MATH 493 Internship in Mathematics**

var-3-12sh

Prerequisites: Completion of core curriculum, completion of application

Positions with participating companies or agencies provide students with experience in mathematics-related work under the supervision of the agencies and faculty. Requirements include one to three on-site consultations, two university consultations, completion of progress reports, and presentation of final cumulative paper. Internship credit may not be used in fulfilling math major course requirements.

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# **Medical Technology**

#### Department of Nursing and Allied Health Professions College of Health and Human Services

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

#### MEDT 494 MEDT 495 MEDT 496 MEDT 497 MEDT 498 MEDT 499

#### **MEDT 494 Clinical Microbiology**

var-6-10sh

Identification and clinical pathology of bacteria, fungi, viruses, and parasites. Techniques to isolate, stain, culture, and determine antimicrobial susceptibility. Instrumentation; quality control.

#### **MEDT 495 Clinical Chemistry**

var-7-10sh

Enzymology, endocrinology, biochemistry of lipids, carbohydrates, and proteins; metabolism of nitrogenous end products; physiology and metabolism of fluids and electrolytes; and toxicology as related to the body and diseases. The technical procedures include colorimetry, spectrophometry, electrophoresis, chromatography, automation, and quality control.

#### **MEDT 496 Clinical Hematology/Coagulation**

var-4-7sh

The composition and function of blood; diseases related to blood disorders; the role of platelets and coagulation. Manual and automated techniques of diagnostic tests for abnormalities.

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#### **MEDT 497 Clinical Immunohematology**

var-3-6sh

Blood antigens, antibodies, crossmatching, hemolytic diseases, and related diagnostic tests. An in-depth study of blood donor service and its many facets such as transfusions, medico-legal aspects, etc.

#### MEDT 498 Clinical Immunology/Serology

var-2-4sh

Immune response, immunoglobulins, autoimmunity, and complement and related tests and diseases. Survey and demonstration of serological diagnostic tests.

#### **MEDT 499 Clinical Seminar**

var-0-6sh

Other courses which are not included in the above (such as orientation, laboratory management, education, clinical microscopy) and/or are unique to the individual hospital program.

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# **Military Science**

#### **Department of Military Science**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

MLSC 101 MLSC 102 MLSC 203 MLSC 204 MLSC 305 MLSC 306 MLSC 407 MLSC 408 Leadership Laboratory Summer Camp

#### **MLSC 101 Introduction to Military Science**

2c-11-2sh

A study of the organization of the United States Army and the role of the military in today's society. Emphasis is on the customs and traditions of the service, the Total Army concept, and the fundamentals of leadership. Included is instruction in basic military skills, land navigation, and personal nutrition and fitness. Also, see <u>Leadership Laboratory</u>.

### **MLSC 102 Fundamentals of Military Science**

2c-11-2sh

The study of the basic knowledge regarding military service and the profession of arms. Emphasis is on basic military skills, first aid, and the development of leadership abilities through practical exercises. Included is instruction on offensive and defensive tactics, the Army writing style, and military briefings. Also, see <u>Leadership Laboratory</u>.

# MLSC 203 Fundamentals of Tactical Operations, Techniques of Leadership, and Weapons Characteristics 2c-11-2sh

Organization, techniques, resources, and capabilities involved in conducting small-unit tactical operations. Emphasis is on leadership, organization, and management techniques needed to cause a group of people to accomplish specific objectives. Characteristics of military weapons systems are taught. Students serve as leaders in Leadership Labs.

#### Back to Top

### MLSC 204 National Security and Fundamentals of Military Topography

2c-11-2sh

The study of national security concepts, policies, and the national decision-making process with emphasis on national resources, national will, and economic factors. Included will be a study of nuclear and conventional response options. Fundamentals of military topography including the use of military maps to determine topographic features, to conduct land navigation, and to perform terrain analysis will be covered. Also, see <u>Leadership Laboratory</u>.

### $MLSC\ 305\ Fundamentals\ of\ Leadership\ and\ Modern\ Learning/Teaching\ Relationship$

3c-11-3sh

A study in practical application of principles of leadership/management as applied in classroom and field to include case studies in psychological, physiological, and sociological factors which affect human behavior; individual and group solution of leadership problems common to small units. Also, see <u>Leadership Laboratory</u>.

# MLSC 306 Study of Advance Leader Planning and Execution of Modern Combat Operations

3c-11-3sh

An analysis of leader's role in directing and coordinating efforts of individuals and small units in execution of offensive and defensive tactical missions, to include command and control systems, the military team, and

communications techniques. Also, see Leadership Laboratory.

#### Back to Top

# MLSC 407 Management of the Military Complex to Include Fundamentals of Military and International Law 3c-11-3sh

The study of the various managerial elements needed to effectively control a military organization and the techniques used to accomplish these functions. Studies in military law and international law prepare the students for their legal responsibilities. Also, see <u>Leadership Laboratory</u>.

#### MLSC 408 Seminar in Military Analysis and Management

3c-11-3sh

Contemporary analysis of use of military in world affairs to include importance of strategic mobility and neutralization of insurgent movements. Selected management problems and situations will be presented as they relate to military justice, administration, and obligation and responsibilities of an officer. Also, see <u>Leadership Laboratory</u>.

#### **Leadership Laboratory (one afternoon per week)**

var-0sh

A practical experience designed for the attainment and application of leadership principles. Concurrently scheduled in conjunction with all Military Science courses, it provides for practical challenges in personal accomplishment, both physical and mental, and for development of team work and leadership.

#### Back to Top

#### **Summer Camp**

var-0sh

Students attend a six-week summer camp upon completion of the first year of the Advanced Course. Time at camp is devoted to practical application of principles and theories taught during the preceding school year. While at camp, each student receives lodging, subsistence, uniforms, medical care, reimbursement for travel, and pay in amount of one-half pay of second lieutenant per month.

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# Music

#### **Department of Music** College of Fine Arts

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

MUSC 110 MUSC 111 MUSC 112 MUSC 115 MUSC 116 MUSC 120 MUSC 121 MUSC 122 MUSC 123 MUSC 125 MUSC 126 MUSC 127 MUSC 129 MUSC 130 MUSC 131 MUSC 133 MUSC 134 MUSC 135 MUSC 136 MUSC 137 MUSC 151 MUSC 152 MUSC 153 MUSC 154 MUSC 155 MUSC 157 MUSC 159 MUSC 161 MUSC 163 MUSC 211 MUSC 212 MUSC 215 MUSC 216 MUSC 217 MUSC 218 MUSC 224 MUSC 225 MUSC 240 MUSC 281 MUSC 304 MUSC 306 MUSC 309 MUSC 311 MUSC 312 MUSC 313 MUSC 331 MUSC 333 MUSC 335 MUSC 337 MUSC 340 MUSC 351 MUSC 353 MUSC 354 MUSC 405 MUSC 406 MUSC 408 MUSC 411 MUSC 412 MUSC 413 MUSC 414 MUSC 475 MUSC 481 MUSC 482 MUSC 493

#### **MUSC 110 Fundamentals of Theory**

3c-01-3sh

Rudiments of musical materials; harmonic, melodic, rhythmic, and basic formal procedures of the common practice period including pitch reading, interval construction, scales, and modes.

#### **MUSC 111 Theory Skills I**

0c-31-2sh

Develops aural skills through dictation and interpretation of written music by sight-singing. Taken in conjunction with Theory I.

#### **MUSC 112 Theory Skills II**

0c-31-2sh

**Prerequisite:** MUSC 111

Continuing development of aural skills and introduction of keyboard skills. Taken in conjunction with Theory II.

#### **MUSC 115 Theory I**

3c-01-3sh

The study of the harmonic, melodic, and formal devices of the common practice period, from simple diatonic chords through secondary dominants.

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#### **MUSC 116 Theory II**

3c-01-3sh

**Prerequisite:** MUSC 115

The study of the harmonic, melodic, and formal devices of the common practice period, from simple diatonic chords through secondary dominants. Theory II introduces basic music forms.

#### **MUSC 120 Brass Ensemble**

0c-21-0/1sh

MUSC 121 Chamber Singers 0c-3l-0/1sh	
MUSC 122 University Chorale 0c-31-0/1sh	
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MUSC 123 Symphony Band 0c-31-0/1sh	
MUSC 125 Marching Band 0c-6l-0/1sh	
MUSC 126 Music Theater 0c-6l-0/1sh	
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MUSC 127 Percussion Ensemble 0c-41-0/1sh	
MUSC 129 University Symphony Orchestra 0c-51-0/1sh	
MUSC 130 String Ensemble 0c-21-0/1sh	
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MUSC 131 University Wind Ensemble 0c-31-0/1sh	
MUSC 133 Woodwind Ensemble 0c-21-0/1sh	
MUSC 134 University Chorus 0c-31-0/1sh	
	Back to Top
MUSC 135 Jazz Ensemble 0c-3l-0/1sh	

MUSC 136 Advanced Jazz Ensemble 0c-3l-0/1sh

#### **MUSC 137 Piano Accompanying**

var-1-1 or 0sh

Piano accompanying may be scheduled by qualified pianists from the Department of Music in partial fulfillment of ensemble requirements. May be repeated for credit. Pianists registered for this course will provide accompaniments for Department of Music students in solo vocal or instrumental performances in area and departmental recitals and/or in voice and instrumental lessons. Registration must be approved by a designated Department of Music faculty member from the piano area.

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#### **MUSC 151 Class Voice I**

1c-11-1sh

Conceived for non-Voice majors. Development of correct vocal production techniques through individual and group performance in class. Use of the voice as a tool for theory skills and for eventual use in the music classroom.

#### **MUSC 152 Class Voice II**

1c-11-1sh

A continuation of Class Voice I. Resumes development of correct vocal production techniques through performance.

#### MUSC 153 Class Piano I

1c-11-1sh

Designed for students with no significant background in piano who need to develop functional keyboard skills. Emphasis placed on harmonizing melodies and playing simple accompaniments.

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#### **MUSC 154 Class Piano II**

1c-11-1sh

Continuation of Class Piano I.

#### **MUSC 155 Class Strings I**

1c-1l-1sh

For Music Education majors who will develop rudimentary playing techniques sufficient to initiate instruction for beginning students. Emphasis placed on correct playing positions and tone production for violin, viola, cello, and double bass.

#### **MUSC 157 Class Percussion I**

1c-11-1sh

A practical introduction to the various instruments of the percussion family. Students will demonstrate correct playing techniques and develop a resource file containing information on percussion instruments and instructional materials as needed by the school music teacher.

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#### **MUSC 159 Class Brass I**

1c-11-1sh

For Music Education majors who will demonstrate rudimentary playing techniques and tone production skills to initiate beginning instruction. Students will develop playing on trumpet or French horn and trombone, euphonium, or tuba.

#### **MUSC 161 Class Woodwinds I**

1c-11-1sh

For Music Education majors who will acquire correct tone production and playing techniques sufficient to initiate beginning instruction. Students will demonstrate skills with flute, clarinet, saxophone, and oboe or bassoon.

#### **MUSC 163 Class Guitar I**

1c-1l-1sh

Designed for students with no significant background in guitar who wish to develop functional playing skills. Emphasis placed on using the guitar as an accompanying instrument.

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#### **MUSC 211 Theory Skills III**

0c-31-2sh

Prerequisites: MUSC 111, 112

Further development of aural and keyboard skills. Taken in conjunction with Theory III.

#### **MUSC 212 Theory Skills IV**

0c-31-2sh

**Prerequisites:** MUSC 111, 112, 211

Culmination of development in aural and keyboard skills. Taken in conjunction with Theory IV.

#### **MUSC 215 Theory III**

3c-01-3sh

Prerequisites: MUSC 115, 116

An extension of the techniques of the eighteenth and nineteenth centuries to include modulation, altered chords, more advanced musical forms, and contrapuntal procedures.

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#### **MUSC 216 Theory IV**

3c-01-3sh

**Prerequisites:** <u>MUSC 115</u>, <u>116</u>, <u>215</u>

An extension of the techniques of the eighteenth and nineteenth centuries to include modulation, altered chords, more advanced musical forms, and contrapuntal procedures. Theory IV concentrates largely on music and materials of the present century.

#### **MUSC 217 Keyboard Harmony I**

1c-11-1sh

Prerequisite: Nominal facility at keyboard

Designed to develop keyboard skills so the student may realize and produce in sound basic harmonic progressions.

#### **MUSC 218 Keyboard Harmony II**

1c-11-1sh

**Prerequisite:** MUSC 217

A continuation of Keyboard Harmony I, involving chromatic harmony and more complex progressions.

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#### **MUSC 224 Jazz Improvisation Techniques I**

3c-01-3sh

A study of the basic materials and practices for improvising or extemporaneous playing.

# **MUSC 225 Jazz Improvisation Techniques II**

3c-01-3sh

A continuation of the basic materials and practices for improvising or extemporaneous playing. Makes use of more complicated and involved harmonic progressions utilizing extended choral harmonies.

# MUSC 240 Technology in the Music Classroom

2c-11-2sh

Prerequisite: Sophomore standing, <u>BEDU/COSC/IFMG 101</u>

Introduces the student to the technology resources available for use in the music classroom and with instructional technologies appropriate to their application in K-12 settings. Students will be exposed to a variety of media and will have the opportunity to gain familiarity in their use. Emphasis will be placed on the use of the computer in the classroom, computer-based instruction, and Musical Instrument Digital Interface (MIDI).

# **MUSC 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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# **MUSC 304 Form and Analysis I**

2c-01-2sh

**Prerequisite:** MUSC 216

A thorough study of smaller forms of music.

#### MUSC 306 Counterpoint I

2c-01-2sh

Prerequisite: MUSC 216

After study and analysis of the style of sixteenth-century contrapuntal writing, student will do original writing using techniques and devices of period. As time permits, same approach will be made to explore style of seventeenth- and eighteenth-century composers.

#### **MUSC 309 Orchestration I**

2c-01-2sh

**Prerequisite:** MUSC 216

All instruments of orchestra are studied from the viewpoint of their contribution to the total sound of ensemble. Ranges and timbres are considered, as well as actual arranging of selected music.

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# **MUSC 311 Fundamentals of Conducting**

3c-01-2sh

Emphasis placed on fundamental physical skills of conducting process; various beat patterns are mastered and elementary score reading and interpretation are considered.

# **MUSC 312 Choral Conducting**

3c-01-2sh

**Prerequisite:** MUSC 311

Provides an opportunity for the student to apply basic conducting techniques to choral music. Each student conducts the class in standard choral works. Includes survey of suitable literature, organizational problems, voice testing, rehearsal techniques, program building, interpretation, and diction.

# **MUSC 313 Instrumental Conducting**

3c-01-2sh

**Prerequisite:** MUSC 311

Provides the student with an opportunity to apply basic conducting skills to various instrumental ensembles. Includes survey of suitable literature, organizational problems, audition procedures, rehearsal techniques, program building, and interpretation.

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# **MUSC 331 Elementary Methods**

3c-01-3sh

Includes analytical study of texts, recordings, equipment, instruments, and other materials suitable to musical development of elementary pupils; proper treatment of child voice; selection, use, and teaching of rote songs; rhythmic activities and development; music reading; part singing; planning and organization; guided observations; and evaluation techniques.

# **MUSC 333 Secondary Methods**

3c-01-3sh

Includes General Music Class, choral organizations, changing voice, techniques of instruction, including team teaching and programmed learning, high school theory courses, high school music literature courses, scheduling, administrative problems, curriculum development, evaluation of materials and equipment, evaluative techniques, and guided observation. Extra laboratory sessions are required.

# Back to Top

# **MUSC 335 Music for the Exceptional Student**

2c-21-2sh

Develops music education skills, techniques, and materials for the emotionally, mentally, physically, or neurologically handicapped student and the gifted. Designed for students in music education, special education, and elementary education.

#### **MUSC 337 General Music in Middle Schools**

3c-01-3sh

**Prerequisite:** MUSC 331

Provides general practices and pedagogy related to recent standards for a comprehensive, sequential middle school general music curriculum. Specific focus on curriculum development, lesson planning, instructional strategies, adolescent behavioral characteristics, as well as diverse materials and resources.

# **MUSC 340 Woodwind Instrument Repair**

0c-21-2sh

Prerequisites: MUSC 133, Teacher Certification

Designed for students preparing for teaching careers in instrumental music. Instruction will be conducted in a laboratory setting and will include development of the diagnostic and repair skills necessary to deal with the problems most frequently encountered in a public school classroom on the clarinet, flute, and saxophone.

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#### **MUSC 351 Italian Diction and Literature**

2c-01-2sh

For first-semester voice majors. Meets for two hours per week. Emphasis is on pronunciation for the stage and readings of Italian song texts. Italian madrigals, solo song literature, and operatic repertoire are also studied.

#### **MUSC 353 French Diction and Literature**

2c-01-2sh

For third- or fourth-semester voice majors. Meets for two hours per week. Emphasis is on pronunciation for the stage and the International Phonetic Alphabet. French solo song literature and operatic repertoire are also studied.

# **MUSC 354 German Diction and Literature**

2c-01-2sh

For second-semester voice majors. Meets for two hours per week. Emphasis is on pronunciation for the stage. German solo song literature as well as Bach chorales are studied.

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#### **MUSC 405 Piano Pedagogy**

3c-01-3sh

**Prerequisites:** Junior standing in Piano and a Piano major or minor

A survey of current and significant past developments in teaching of piano, both privately and in small and large classes. The various piano methods are analyzed, compared, criticized, and adapted to each individual's use.

# **MUSC 406 Voice Pedagogy**

3c-01-3sh

**Prerequisites:** A voice major or minor and permission of the instructor

A survey of current and past development in teaching of voice, both privately and in small and large classes. The various vocal methods are analyzed, compared, criticized, and adapted to each individual's use.

# **MUSC 408 Marching Band Techniques**

2c-01-2sh

Considers building a band show; alignment of ranks and files; development of a standard pace of 5 to 5 and 8 to 5; selection of music; instrumentation; techniques of developing morale; and fundamentals of uniform design.

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# **MUSC 411 Composition I**

2c-01-2sh

**Prerequisite:** MUSC 216

Instruction is individualized. Compositional devices studied through analysis of works by major composers. Students will write several original compositions utilizing smaller forms.

# **MUSC 412 Composition II**

2c-01-2sh

**Prerequisite:** MUSC 411

Continuation of Composition I.

#### **MUSC 413 Composition III**

2c-01-2sh

Prerequisite: MUSC 412

Students will write several original compositions utilizing larger forms.

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# **MUSC 414 Composition IV**

2c-01-2sh

**Prerequisite:** MUSC 413

A continuation of Composition III. Outstanding works will be programmed by university performing ensembles.

#### **MUSC 475 Music Lab**

var-0sh

All music majors must attend eight recitals per semester and all departmental recitals, as well as all recitals for their respective performance areas.

# **MUSC 481 Special Topics**

3c-01-3sh

**Prerequisite:** As appropriate to course content

May provide an in-depth study of a narrowly defined area of the discipline. Subject matter will change with repeated offering of the course. May be repeated for credit.

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# **MUSC 482 Independent Study**

var-1-6sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

# **MU 493 Internship in Music**

var-1-6sh

Designed for music majors who wish to receive practical experience working with people in music or in areas related to music.

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# **Music History**

# **Department of Music** College of Fine Arts

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

<u>MUHI 101 MUHI 281 MUHI 301 MUHI 302 MUHI 322 MUHI 323 MUHI 324 MUHI 325 MUHI 420 MUHI 421 MUHI 481 MUHI 482</u>

#### **MUHI 101 Introduction to Music**

3c-01-3sh

Presumes no technical background but does utilize the varied musical experiences of each individual to help extend interest as far as possible. Attendance at various concerts of university organizations, cultural life events, and visiting artist concerts is required to augment listening experiences of students.

# **MUHI 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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# **MUHI 301 Music History I**

3c-01-3sh

Prerequisites: HIST 195, ENGL 101, ENGL 202, HIST 305

An intensive study of the history and style of Medieval, Renaissance, and Baroque music. Considerable analytical listening required.

# **MUHI 302 Music History II**

3c-01-3sh

**Prerequisites:** MUHI 301 or permission

An intensive study of the history and styles of Classical, Romantic, and twentieth-century music to 1950. Considerable analytical listening required.

#### **MUHI 322 Medieval and Renaissance Music**

3c-01-3sh

An intensive study of the plainchant foundations in the early Middle Ages; the origins of polyphony; sacred and secular music of the thirteenth to the sixteenth centuries; special emphasis on Dufay, Josquin, Palestrina, and their contemporaries.

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3c-01-3sh

Prerequisites: MUHI 301, 302

Extends from Monteverdi through Bach and Handel and considers vocal and instrumental forms, styles, and practices

of era.

# **MUHI 324 The Classical Era**

3c-01-3sh

Prerequisites: MUHI 301, 302

A survey of music from about 1725 to about 1827, with special attention to the music of Mozart and Haydn.

Consideration is given also to the works of D. Scarlatti and C.P.E. Bach.

#### **MUHI 325 The Romantic Era**

3c-01-3sh

A survey of music from about 1800 to 1910, with attention directed to the earlier romantic composers such as Beethoven, Schubert, Mendelssohn, and Berlioz through the later romantic composers such as Wagner, Tschaikowsky, Mahler, and Dvorak as well as others.

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# **MUHI 420 The 20th Century**

3c-01-3sh

Prerequisites: MUHI 301, 302

A survey of the stylistic trends of music from 1900 to the present, beginning with Debussy, Ravel, and other impressionists through the music of Schonberg, Stravinsky, Webern, Honegger, and Milhaud. Offered infrequently.

# **MUHI 421 American Music**

3c-01-3sh

Prerequisites: MUHI 301, 302

A study of history and literature of music in America from 1600 to the present day.

# **MUHI 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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# **MUHI 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through adviser, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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# **Nuclear Medicine Technology**

# **De[artment of Nursing and Allied Health Professions College of Health and Human Services**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

#### NMDT 427 NMDT 428 NMDT 429 NMDT 430 NMDT 431 NMDT 432 NMDT 433 NMDT 434

#### NMDT 427 Nuclear Scintigraphy

3c-01-3sh

Theoretical aspects of nuclear medicine imaging procedures, including applicable pathophysiology, technical aspects for data acquisition, and computer analysis of data. Systemic radionuclide therapy procedures are also discussed.

# **NMDT 428 Radiation Physics**

3c-01-3sh

Applicable aspects of nuclear and atomic physics are covered both in theory and mathematical formulae. Theoretical topics include atomic and nuclear structure, radioactive decay, interactions with matter, and radionuclide production methods. Mathematical concepts discussed are the decay equation, equilibrium, and radiation dosimetry.

#### NMDT 429 Nuclear Medicine Instrumentation

2c-11-3sh

Covers the basic principles of both in vitro and in vivo instrumentation. The design, operation, and quality control of gas detectors and scintillation detectors are covered. Survey equipment, spectrometers, and stationary imaging devices are presented with their application to nuclear medicine. Hands-on laboratory experience with single channel analyzers and Anger cameras is included.

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# NMDT 430 Radiation Biology and Radiation Protection

2c-01-2sh

Topics include ionization and energy transfer; molecules, cellular, tissue, and organ response to radiation; acute and chronic effects of radiation; radiation protection; licensing requirements; recordkeeping; and management of clinical radiation spills.

# NMDT 431 In Vivo/In Vitro Non-Imaging

1c-01-1sh

In vivo clinical nuclear medicine procedures not resulting in images as well as principles of in vitro radioassay are presented. Included are venipuncture, blood volumes, red cell studies, Schillings test, principles of immunology, various types of radioassay, and sensitivity and specificity of procedure.

# **NMDT 432 Radiopharmaceuticals**

3c-01-3sh

Topics include tracer theory, pharmacological actions, localization methods, radiopharmaceutical properties, radionuclide generators, radiopharmaceutical preparations and quality control, and transient vs. secular equilibrium. Routinely used radiopharmaceuticals are discussed.

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# NMDT 433 Introduction to Tomographic Imaging

1c-0l-1sh

An introduction to the basic principles of cross-sectional anatomy and tomographic imaging is presented. Topics include body planes and cross-sectional anatomy of the heart, brain, liver, and lumbar spine, as applicable to nuclear medicine, and the theory and application of both SPECT and PET imaging systems.

#### **NMDT 434 Clinical Nuclear Medicine**

0c-40l-16sh

**Prerequisite:** Completion of 77sh at IUP and Phase I and NMI

Students complete 1,320 hours of supervised clinical training at an affiliate hospital. Students receive instruction and participate in the performance of various clinical nuclear medicine procedures, patient care, administrative duties, radiopharmaceutical preparation and quality control, equipment quality control, quality assurance, and radiation safety. Students develop both their technical skills and interpersonal communication skills for incorporation into the medical community and to provide high-quality patient care. Only offered on a pass/fail basis.

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# Nursing

# Department of Nursing College of Health and Human Services

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

NURS 280 NURS 281 NURS 285 NURS 302 NURS 303 NURS 304 NURS 305 NURS 322 NURS 323 NURS 402 NURS 403 NURS 404 NURS 405 NURS 407 NURS 422 NURS 423 NURS 430 NURS 480 NURS 481 NURS 482 NURS 493

# **NURS 280 Introduction to Nursing**

3c-01-3sh

**Prerequisite:** Nursing majors only

Introduces the major concepts of concern to nursing: persons in their environments, health, and the profession of nursing. Topics include the nurse's role as provider of care and member of a profession; the nursing process as the mode of practice; the value of research as a basis for nursing practice; biophysical and psychosocial components of wellness.

# **NURS 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

# **NURS 285 Introduction to Clinical**

0c-91-3sh

Prerequisite: Nursing majors only

A clinical and college laboratory course which provides the opportunity to practice the use of the nursing process. Emphasis is placed on assessment and basic intervention skills.

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#### **NURS 302 Core I**

2c-01-2sh

Prerequisite: NURS 280

Emphasizes the involvement of nurses and nursing in selected aspects of wellness promotion and maintenance. The theory base for the use of the nursing process to support individuals and families through maturational change and the childbearing cycle is presented.

# **NURS 303 Clinical Laboratory I**

0c-14l-5sh

Prerequisites: NURS 280, NURS 285

A clinical laboratory course which enables the student to care for individuals and families across the life span. Guided

experiences are provided in hospital and community-based facilities. The nursing process is utilized to promote and maintain wellness in individuals within families.

#### **NURS 304 Core II**

2c-01-2sh

Prerequisite: NURS 302

Emphasizes the involvement of nurses and nursing in selected aspects of wellness, promotion, maintenance, and restoration. The theory base for the use of the nursing process is expanded to include family, community health, and transcultural nursing concepts.

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# **NURS 305 Clinical Laboratory II**

0c-14l-5sh

**Prerequisite:** NURS 303

A clinical laboratory course which enables the student to provide care to individuals and families with acute and chronic health problems across the life span. Guided experiences are provided in hospital and community-based facilities and individuals' homes. The nursing process is utilized to promote, maintain, and restore optimal wellness in individuals within families.

# NURS 322 Maintenance and Restoration of Wellness I

3c-01-3sh

Prerequisites: NURS 280, NURS 285

Introduces pathophysiologic change in individuals across the life span and associated nursing management. Topics include caring for the individual who requires surgery or whose alteration in health is related to problems in oxygenation, nutrition, and fluid and electrolyte balance.

#### **NURS 323 Maintenance and Restoration of Wellness II**

3c-01-3sh

Prerequisite: NURS 322

Physiologic and psychologic pathology in individuals across the life span and associated nursing management. Topics include caring for the individual whose alteration in health is related to problems with reproductive, cognitive-perceptual, motor, metabolic, and elimination function.

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#### **NURS 402 Core III**

2c-01-2sh

Prerequisite: NURS 304

Emphasizes the nurse's roles as accountable provider and coordinator of care and member of a profession. The specific issues that are addressed are quality assurance in provision of patient care; rights and responsibilities of the individual, the nurse as an employee, and the employer; current environmental health concepts.

#### **NURS 403 Clinical Laboratory III**

0c-14l-5sh

**Prerequisite: NURS 305** 

A clinical laboratory course which affords the opportunity to apply the nursing process as provider and coordinator of care with individuals and families experiencing complex health care needs in a variety of health care facilities.

#### **NURS 404 Core IV**

2c-01-2sh

Prerequisite: NURS 402

Emphasizes the nurse's roles as provider and coordinator of care in health care facilities and in emergency and disaster situations. Concepts and principles related to the management of the health care team, community health, and rehabilitation are addressed.

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# **NURS 405 Clinical Laboratory IV**

0c-14l-5sh

Prerequisite: NURS 403

A clinical laboratory course which affords the opportunity for the application of critical thinking, health teaching, and management skills. Emphasizes development of the caregiver role in selected areas of clinical practice; development of the care provider and coordinator roles in inpatient and community settings with individuals and families experiencing complex health care needs; integration of the roles of provider and coordinator of care and member of a profession.

#### **NURS 407 Skills for Professional Success**

1c-0l-1sh

**Prerequisite:** must be enrolled in senior level nursing courses

A 1sh elective for senior nursing majors designed to help students foster clinical judgment skills by focusing on critical thinking and test-taking. Emphasis is placed on preparing students with the skills that are essential for success on the National Council Licensure Examination for Registered Nurses (NCLEX-RN).

#### **NURS 422 Maintenance and Restoration of Wellness III**

3c-01-3sh

**Prerequisite:** NURS 323

Emphasizes pathophysiology and psychopathology for understanding the complex process of the individual's adaptation to crisis. The theory base for the application of the nursing process in the care of individuals requiring hospitalization, life-sustaining treatment, intensive monitoring, and crisis intervention is discussed.

# **NURS 423 Maintenance and Restoration of Wellness IV**

3c-01-3sh

Prerequisite: NURS 422

Emphasizes strategies used in assisting individuals and their families in the promotion, maintenance, and restoration of optimal wellness. The theory base for the application of the nursing process when illness is being managed in acute, long-term care, and community settings is discussed.

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# **NURS 430 Nursing Research**

3c-01-3sh

Prerequisite: MATH 217

The focus is on evaluating research through a study of research design, methodologies, sampling, data analysis, and significance of findings. Consideration is given to issues in conducting research and the impact on problems investigated, the nurse researcher, and the consumer of research.

#### **NURS 480 Seminar in Nursing**

1c-0l-1sh

Prerequisites: NURS 280, NURS 285

A seminar which provides a forum for the exploration and discussion of issues relevant to the professional nurse. Emphasis is placed on the development of professional values, critical thinking, decision-making, and communication skills. A selection of topics on current issues and trends will be offered each semester; each will focus on a particular theme related to nursing practice. 1sh of seminar is required in each semester in the upper-division nursing courses.

# **NURS 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special

topics numbered 481 are primarily for upper-level undergraduate students.

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# **NURS 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

# **NURS 493 Internship**

var-1-12sh

Prerequisite: NURS 280, 285; 57 credits completed; minimum 2.0 GPA

Supervised experience in a practice setting which extends and complements coursework in nursing. Types of practice settings may include acute care hospitals, outpatient centers, and community agencies.

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# **Office Systems**

**Department of Technology Support and Training Eberly College of Business and Information Technology** 

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

OSYS 281 OSYS 301 OSYS 310 OSYS 311 OSYS 313 OSYS 315 OSYS 402 OSYS 411 OSYS 412 OSYS 413 OSYS 480 OSYS 481 OSYS 482 OSYS 493

Note: All courses at the 300 and 400 level are open only to students with junior or senior standing. All students, regardless of major or program affiliation, must meet course prerequisite requirements in order to enroll for a given course. Business majors (except those majoring in Business Education) who have not achieved Junior Standing are normally not permitted to enroll in 300- or 400-level courses.

# **OSYS 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Prerequisite: As appropriate to course content Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

#### **OSYS 301 Advanced Microcomputer Applications**

3c-01-3sh

**Prerequisite:** BEDU/COSC/IMFG 101, or permission of instructor

Advanced utilization of the microcomputer to enhance productivity of office employees: executive and managerial, professional, and support personnel through optimization of hardware and software. Comparative and evaluative techniques for appropriate selection and implementation of software. Operating environment, integrated suites, multimedia, Internet, and utility software will be emphasized.

#### **OSYS 310 Telecommunications**

3c-01-3sh

Prerequisite: <u>BEDU/COSC/IMFG 101</u>

Provides an introduction to telecommunications in the business environment. Includes an overview of electronic communication systems including a conceptual framework as well as hands-on experience. Concepts of telecommunications technology, applications, and management as they apply to business and industry will be addressed. (Offered as OSYS 400 prior to 2000-2001)

# **OSYS 311 Training Methods in Business and Information Technology Support**

3c-ol-3sh

Prerequisites: <u>PSYC 101</u>, junior standing

Includes the application of theories of adult learning to planning, delivering, and evaluating training for education and information technology. Major emphasis is placed on the planning of instruction. Topics include needs assessment; live and mediated instruction; classroom management; evaluation and follow-up methods; and evaluation of training

strategies.

# **OSYS 313 Office Systems Technologies**

3c-01-3sh

Prerequisite: Junior standing

Emphasis will be on systems hardware, especially the microcomputer. Concepts and design principles common to all microprocessors are studied. Auxiliary hardware, such as reprographics, printers, modems, scanners, and laser technology will be included.

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#### **OSYS 315 Records Administration**

3c-01-3sh

**Prerequisite:** BEDU/COSC/IFMG 101, or permission of instructor

Development of the goal of records administration as a system including the input, process, and output components. Records creation, records classification systems, evaluation, retention programs, manual through automated information systems, image technology, form design, record control systems, records manuals, and disaster prevention and recovery will be discussed.

# **OSYS 402 Website Development and Administration**

3c-01-3sh

Prerequisite: <u>BEDU/COMM/COSC/IFMG/LIBR 201</u> or instructor permission

Guides the student through a hands-on, step-by-step process of creating an attractive, well-designed website for an enterprise. The student will learn how to install and configure a WWW server, publish web pages using the latest tools and set up mechanisms to manage and update a website and content.

# **OSYS 411 Microcomputer Support for Office Systems**

3c-01-3sh

Prerequisites: OSYS 301, OSYS 313, and OSYS 400

Includes three dimensions of study relative to office systems—helpdesk management, training and development, and ergonomics. Incorporates practical applications for delivering technical support through the operation of a helpdesk. Requires development and delivery of technological applications and a field study of ergonomic office designs.

# **OSYS 412 Administrative Office Services**

3c-01-3sh

A presentation of fundamental principles and practices used in the development of an office. Specialized areas such as systems analysis, work simplification, forms design, information processing, office machines and equipment, records management, office design and layout, office location and physical environment, office supervision, office manuals, and development of office personnel will be discussed.

# **OSYS 413 Enterprise Technology Support**

3c-01-3sh

Prerequisites: OSYS 313; COSC/IFMG 352; or permission of instructor

Provides a comprehensive and practical knowledge of enterprisewide technology. Topics covered include knowledge management, remote user support, teleconferencing, and network management and enhancement. Students will have hands-on experience working with software, customizing user environments, managing technology security, enhancing and troubleshooting the computing environment.

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# **OSYS 480 Seminar in Business Technology Support**

3c-01-3sh

**Prerequisites:** Graduating seniors only or permission of instructor

Emphasis will be on the solving of office management problems. Provides an opportunity to integrate and apply the

skills and knowledge previously gained in the Business Technology Support major.

# **OSYS 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

# **OSYS 482 Independent Study**

var-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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# **OSYS 493 Internship**

var-3-6sh

**Prerequisites:** Approval of internship coordinator, chairperson, and dean and 2.75 overall GPA and 3.0 GPA in Business

A supervised office experience program with an approved agency (business, industry, and government).

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# **Pan-African Studies**

# **College of Humanities and Social Sciences**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

# PNAF 131 PNAF 281 PNAF 481 PNAF 482

#### PNAF 131 Introduction to Pan-African Studies

3c-01-3sh

A multidisciplinary introduction to Africa and the African diaspora. Explores the effects of Africa's history, in particular colonialism and independence, on present-day Africa; examines the relationship between Africa and the African diaspora with special attention to African arts, social systems, and political and economic development; looks at Africa's contribution to contemporary culture in the Americas.

# **PNAF 281 Special Topics**

3c-01-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are primarily for lower-level undergraduate students.

# **PNAF 481 Special Topics**

3c-01-3sh

**Prerequisite:** Permission of the instructor and program coordinator

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

# PNAF 482 Independent Study

var 1-to-3sh

**Prerequisite:** Prior approval through advisor, faculty member, program coordinator, dean, and Provost's Office Students with interest in independent study of a Pan-African Studies-related topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# **Philosophy**

# Department of Philosophy and Religious Studies College of Humanities and Social Sciences

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

PHIL 101 PHIL 120 PHIL 221 PHIL 222 PHIL 223 PHIL 232 PHIL 281 PHIL 321 PHIL 323 PHIL 324 PHIL 325 PHIL 326 PHIL 330 PHIL 400 PHIL 405 PHIL 410 PHIL 420 PHIL 421 PHIL 450 PHIL 460 PHIL 481 PHIL 482 PHIL 482 PHIL 493

# PHIL 101 Informal Logic: Methods of Critical Thinking

3c-01-3sh

Designed to develop students' ability to analyze critically deductive and inductive argumentation, rhetoric, and persuasion, by examples drawn from media, textbooks, advertising, scholarly works, personal contacts, etc.

# **PHIL 120 Introduction to Philosophy**

3c-01-3sh

Designed to acquaint the beginning student with philosophical problems and methods in such areas as metaphysics, epistemology, logic, and value theory.

# PHIL 221 Symbolic Logic I

3c-01-3sh

An introduction to fundamental concepts in deductive logic with an emphasis on teaching students the basis of clear logical thought. Some of the historical origins of logical theory are explored. Students learn to symbolize arguments in the truth-functional logic and the predicate logic. Ways of testing arguments for validity as well as proofs are covered, with a stressing of application to actual arguments drawn from numerous sources in the media, philosophical issues, and moral problems.

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#### PHIL 222 Ethics

3c-01-3sh

An investigation of efforts to rationally justify moral judgment. Deals with fundamental issues such as: What is morality? Are moral notions cultural, rational, divine, or innate in origin? Are they relative or absolute? Are they freely chosen or determined by genetics and/or environment? Covers a variety of ethical theories significant both historically and contemporarily and applies those theories to current issues which involve moral dilemmas.

# PHIL 223 Philosophy of Art

3c-01-3sh

Investigates some of the major problems in the philosophy of art, e.g., the nature of beauty and the aesthetic experience, the ethics and politics of art, creativity, the nature of the work of art and aesthetic objects, the concept of fine art, and the evaluation of works of art and aesthetic objects.

# PHIL 232 Philosophical Perspectives on Love, Marriage, and Divorce

3c-01-3sh

Examines the philosophical foundations of contemporary Western institutions and ideologies of romantic love. Considers major positions in both the history of philosophy and contemporary philosophy. Investigates the concepts, problems, and philosophical theories central to understanding romantic love, marriage, and divorce.

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#### **PHIL 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

#### PHIL 321 Symbolic Logic II

3c-01-3sh

**Prerequisite:** PHIL 221 or permission of instructor

A continuation of Symbolic Logic I designed to enable students to evaluate consistency of statements, validity of arguments, soundness and completeness of formal systems. Focus on quantificational calculus and inductive logic.

# **PHIL 323 Political Philosophy**

3c-01-3sh

An inquiry into the philosophical concepts underlying the major political theories from ancient Greece to the modern era. Emphasis will be placed on major authors and texts to demonstrate a continuum of ideas and their modifications, replacement, and revival, as well as novel political ideas. Possible topics: commonality; peace; internationalism; sovereignty; nature of the state; law; the ruler; cosmopolitanism; nationalism; social contract; liberty; obligation; property; racism; sexism; slavery.

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# PHIL 324 History of Philosophy I: Ancient and Medieval

3c-01-3sh

Western philosophy of pre-Socratic, classical Greek, Roman, and medieval periods. Special attention given to Plato, Aristotle, Augustine, and Aquinas, as well as the philosophic schools.

# PHIL 325 History of Philosophy II: Renaissance and Modern

3c-01-3sh

A continuation of PHIL 324, beginning with fifteenth-century Renaissance thought and ending with the nineteenth-century precursors of contemporary philosophies.

# PHIL 326 Phenomenology and Existentialism

3c-01-3sh

A study of the phenomenological method as developed by Edmund Husserl and of the subsequent phenomenological movement as exemplified in the works of such representative figures as Heidegger, Merleau-Ponty, and Paul Ricoeour and of existentialism both as an independent movement of thought and as influenced by phenomenology and exemplified in the works of such representative figures as Kierkegaard, Jaspers, Marcel, Buber, and Sartre.

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# PHIL 330 Philosophy of Science

An investigation into the nature of formal and empirical sciences: structure of scientific thought and its dependence upon or independence of theory; the logical and metaphysical status of scientific laws and theoretical concepts; reductionism in science; the concept of causality; the logic of explanation; problems in confirmation theory; science and value. No special background required. Recommended for math and science majors.

#### **PHIL 400 Ethics and Public Policy**

3c-01-3sh

An analysis of the ethical dimension of public policies. Provides a general understanding of ethical theories, then focuses on their application to specific policy issues. Topics will vary from semester to semester. See current schedule of classes.

# **PHIL 405 Justice and Human Rights**

3c-01-3sh

An introduction to theories of justice and an analysis of the concept of human rights which is central to a just society and to much moral, political, and legal dispute. Explores relevant major positions in the history of philosophy, but its major focus is contemporary and raises issues such as women's rights, black rights, animal and environmental rights, welfare rights, and rights to life (or death).

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# PHIL 410 Contemporary Analytic Philosophy

3c-01-3sh

An investigation of twentieth-century Western positions such as pragmatism, logical positivism, logical and linguistic analysis.

# PHIL 420 Metaphysics

3c-01-3sh

A study of the nature of reality in general and of the main categories through which it is understood. The main topic areas of metaphysics concern: the one and the many; the relation of thought and being; the problem of universals; nominalism; realism; idealism; the nature of being, substance, essence, space, time, eternity, matter, mind; determinism and indeterminism.

# PHIL 421 Theory of Knowledge

3c-01-3sh

An investigation into problems involved in knowledge and justification and a consideration of methods suggested for their resolution. Particular attention is paid to issues such as knowledge, justification, certainty, objectivity, perception, and truth.

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# PHIL 450 Philosophy of Law

3c-01-3sh

An examination of the nature of law and its relationship to such questions as morality, obligation, judicial review, justice, rights, punishment, liberty. Combines philosophical theory with consideration of selected court cases to develop a philosophical and legal understanding of law and its place in society.

#### PHIL 460 Philosophy of Language

3c-01-3sh

An investigation of issues in the philosophy of language and related issues in linguistics (including anthropological linguistics, sociolinguistics, and psycholinguistics). Topics include, for example, the influence of language on

perception, rationalist/empiricist perspectives on language acquisition, language and political control, reference, meaning, and truth.

# **PHIL 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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# **PHIL 482 Independent Study**

var-1-6sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources. May be taken more than once to a maximum of 6sh. (This option is available to both philosophy majors and nonmajors.)

# PHIL 482 Independent Study: Honors Project

3c-01-3sh

**Prerequisites:** Prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office. 3.00 cumulative GPA, 15sh in Philosophy, and 3.20 GPA in departmental courses

Majors in Philosophy are invited to take 3sh of independent study designated Honors Project. Upon satisfactory completion, graduation with departmental honors is possible.

# PHIL 493 Internship in Philosophy

var-3-6sh

**Prerequisites:** Permission of the department, junior or senior PHIL major or double major, 2.5 QPA A supervised experience of no longer than one semester and no less than five weeks. This would take place in either a public or private organization in areas that either extend and develop or complement coursework in Philosophy. Log and/or major paper required. Internships are to be done with a clear analysis, argumentation, and examination of governing principles.

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# **Physics**

#### **Department of Physics**

**College of Natural Sciences and Mathematics** 

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

PHYS 101 PHYS 111 PHYS 112 PHYS 121 PHYS 122 PHYS 131 PHYS 132 PHYS 141 PHYS 142 PHYS 151 PHYS 161 PHYS 222 PHYS 223 PHYS 231 PHYS 242 PHYS 281 PHYS 299 PHYS 322 PHYS 323 PHYS 331 PHYS 342 PHYS 350 PHYS 351 PHYS 352 PHYS 353 PHYS 355 PHYS 399 PHYS 432 PHYS 472 PHYS 473 PHYS 475 PHYS 476 PHYS 480 PHYS 481 PHYS 482 PHYS 490 PHYS 493

#### **PHYS 101 Energy and Our Environment**

3c-01-3sh

An overview of the areas of energy, transportation, and pollution. These topics are approached via the relevant concepts of physical science and physics. A nonlaboratory course for Liberal Studies requirements.

# **PHYS 111 Physics I Lecture**

3c-01-3sh

**Prerequisites:** Elementary algebra and trigonometry

General college physics; mechanics, wave motion, and sound.

#### PHYS 112 Physics II Lecture

3c-01-3sh

**Prerequisite:** PHYS 111

Electricity and magnetism, heat, light, atomic and nuclear physics, and an elementary introduction to relativity and quantum theory.

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#### PHYS 121 Physics I Lab

0c-31-1sh

Corequisite: PHYS 111

Physics laboratory at level of Physics I; exercises in mechanics, wave motion, and sound.

# PHYS 122 Physics II Lab

0c-31-1sh

Corequisite: PHYS 112

Physics laboratory at level of Physics II; exercises in optics, electricity and magnetism, and radioactivity.

# **PHYS 131 Physics I-C Lecture**

3c-01-3sh

**Prerequisites:** MATH 121, 123, or 127, at least concurrently

A calculus-based course in general college physics; topics covered are similar to those covered in Physics 111 but are treated in more depth through the use of calculus.

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# **PHYS 132 Physics II-C Lecture**

3c-01-3sh

**Prerequisites:** MATH 122, 124, or 128, at least concurrently

A continuation of Physics I-C; topics covered are similar to those covered in Physics II but are treated in more depth through the use of the calculus.

#### PHYS 141 Physics I-C Lab

0c-31-1sh

Corequisite: PHYS 131

Physics laboratory at same level as Physics I-C; exercises in mechanics, wave motion, and sound.

#### PHYS 142 Physics II-C Lab

0c-31-1sh

Corequisite: PHYS 132

Physics laboratory at same level as Physics II-C; exercises in optics, electricity and magnetism, and radioactivity.

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#### **PHYS 151 Medical Physics Lecture**

3c-01-3sh

Development of concepts and principles of physics with a strong emphasis as to their use and application in medical and other biophysical areas.

# **PHYS 161 Medical Physics Lab**

0c-31-1sh

**Corequisite: PHYS 151** 

Experiments dealing with applications of physical principles to the field of medicine. Practical experience with use of electronic equipment, chart recorders, etc., of type found in modern-day medicine will be introduced.

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#### PHYS 222 Mechanics I

2c-01-2sh

**Prerequisites:** PHYS 111 or 131; MATH 122, 124, or 128

Dynamics of a particle in one, two, and three dimensions, central forces including planetary and satellite motion, energy in particle dynamics, statics, and systems of particles.

#### PHYS 223 Mechanics II

2c-01-2sh

Prerequisites: PHYS 222, MATH 241

Mechanics of a rigid body, constraints, oscillations, wave motion, introduction to Lagrangian and Hamiltonian formulation and relativistic mechanics.

# **PHYS 231 Electronics**

3c-31-4sh

**Prerequisites:** PHYS 112 or 132; MATH 122, 124, or 128

Circuit theory, transients, transistor circuits, frequency response, input and output impedance, feedback and electronic noise. Operational amplifiers and digital electronics.

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# **PHYS 242 Optics**

3c-01-3sh

**Prerequisites:** PHYS 112 or 132; MATH 122, 124, or 128

Geometrical optics and physical optics; including interference, diffraction, and polarization. Quantum optics is introduced.

# **PHYS 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

#### PHYS 299 Cooperative Education I

var-1-3sh

**Prerequisites:** PHYS 132; completion of 30 credits with a minimum of 2.0 GPA and approval of the cooperative education coordinator

This program blends classroom theory with practical application through job-related experience. Students will work in positions offered by the participating industrial or federal/state work-study program employers under joint supervision of the Physics faculty and the on-site supervisor. A co-op student must be a full-time university student in good academic standing and be planning to return to campus for completion of his/her degree program. Evaluation requirements may include on-site visitations by the faculty/coordinator, consultation with the on-site supervisor, and a major progress report by the student or the presentation of a detailed oral report before the departmental cooperative education committee.

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# PHYS 322 Electricity and Magnetism I

2c-01-2sh

**Prerequisite: PHYS 222** 

Electrostatic potential theory, dielectrics, dipole theory, magnetostatics, Maxwell equations for static fields, and Legendre's polynomials and other approximation methods.

#### PHYS 323 Electricity and Magnetism II

2c-01-2sh

Prerequisite: PHYS 322

Time-dependent form of Maxwell equations, electromagnetic induction, vector potential, magnetism, radiation fields, and Poynting vector.

#### **PHYS 331 Modern Physics**

3c-01-3sh

**Prerequisites:** PHYS 112 or 132; MATH 122, 124, or 128

An introduction to particle and wave properties of matter, atomic structure, relativity, solid state and nuclear physics.

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# PHYS 342 Thermal and Statistical Physics

3c-01-3sh

**Prerequisites:** PHYS 112 or 132; MATH 122, 124, or 128

Thermometry, laws of thermodynamics, low-temperature physics, entropy, properties of ideal gas, and an introduction to statistical mechanics.

#### PHYS 350 Intermediate Experimental Physics I

0c-61-3sh

**Prerequisites:** PHYS 242 and 331

Required fundamental experiments in areas of mechanics, optics, modern physics, and heat.

# PHYS 351 Intermediate Experimental Physics II

0c-6l-3sh

**Prerequisite:** PHYS 350

Increasingly sophisticated experiments in essential areas of physics. Digital computers and the Van de Graaff are available.

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#### **PHYS 352 Applied Physics Laboratory**

0c-6l-3sh

Prerequisites: PHYS 231, 355, or permission of instructor

The student is introduced to much of the fundamental equipment used in industry. The student is trained in the operation and proper use of this equipment through a series of experiments that teach him/her signal detection and analysis including data acquisition by computer. The student will receive instruction on the proper methods to be used for various oral and written presentations.

# PHYS 353 Solid State Electronics Laboratory

0c-6l-3sh

**Prerequisite:** PHYS 352 or permission of instructor

The student will encounter a number of areas of current interest in semiconductor technology. The student will perform experiments and learn skills in such areas as device process simulation, device simulation, measurements of semiconductor materials, and measurement of device parameters. The student will also be instructed in the proper presentation of written and oral reports.

# **PHYS 355 Computer Interfacing**

2c-21-3sh

**Prerequisite:** COSC 110

Designed to teach the fundamentals of interfacing the personal computer to its physical surroundings. The students will learn how to collect data and to control experiments in real time. They will learn how to use digital to analog conversion (DAC) techniques and analog to digital conversion (ADC) techniques. They will also use a graphical software package (such as LabVIEW) to design icon-based interfacing tools, to learn how to use virtual instruments, and to analyze data. (Offered as PY150: Computer Applications to Physics Laboratories prior to 1997-98)

# **PHYS 399 Cooperative Education II**

var-1-3sh

**Prerequisites:** PHYS 299; PHYS 350; completion of eighty credits with a minimum of 2.5 GPA and approval of the cooperative education coordinator

A second course in cooperative education. Includes instruction that builds upon learning experiences in college by combining and correlating them with learning experiences at the training station to meet the student's career goals. Evaluation requirements may include on-site visitations by the faculty/coordinator, consultation with the on-site supervisor, and a major progress report by the student or the presentation of a detailed oral report before the departmental cooperative education committee. No more than 3sh of PHYS 299, PHYS 399, and/or PHYS 493 may be used in fulfilling physics major course requirements.

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# **PHYS 432 Advanced Electronics**

2c-3l-3sh

**Prerequisite: PHYS 231** 

Digital measurement, switching circuits, logic circuits, counting, coding, input and output, AD and DA converters, computer organization.

# **PHYS 472 Nuclear Physics**

3c-01-3sh

**Prerequisite: PHYS 331** 

A survey of nuclear physics, nuclear size, nuclear mass, reaction theory, types of radioactive decay, nuclear models, nuclear forces, and elementary particles.

# PHYS 473 Quantum Mechanics I

4c-01-4sh

Prerequisites: PHYS 222, and 331

Quantum mechanics following methods of Schrodinger and Heisenberg; the theory is applied to properties of harmonic oscillator, hydrogen atom, electron in a magnetic field, and radioactive decay of alpha particles.

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# PHYS 475 Physics of Semiconductor Devices I

3c-01-3sh

Prerequisites: PHYS 231, PHYS 242, PHYS 342, or permission of instructor

Develops the basic foundation for a study of the theory of semiconductors. Elementary quantum concepts, the band theory of solids, electrical properties of solids, effective mass theory, and principles of semiconductor devices are discussed.

# PHYS 476 Physics of Semiconductor Devices II

3c-01-3sh

**Prerequisite:** PHYS 475 or permission of instructor

Discusses the physics and operation of a number of discrete devices including: bipolar transistors, MOSFETS, JFETS, CCDs, various diode technologies, photovoltaic and photoconductive devices, solid-state lasers, and light-emitting diodes.

#### PHYS 480 Seminar

var-1sh

Speakers from within and outside the university conduct a seminar on a weekly or biweekly basis on different topics of interest in the physics community.

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# **PHYS 481 Special Topics in Physics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Varies from semester to semester and covers diverse topics in specific areas of physics. This course number is also used to offer courses under development.

# **PHYS 482 Independent Study in Physics**

var-1-6sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources. Work is supervised by a Physics faculty member but does not necessarily involve regular lecture or laboratory hours.

# PHYS 490 Solid State Physics

3c-01-3sh

Prerequisites: PHYS 223 and 331

Reciprocal lattice, crystal structure, the quantization of fields to produce quasi-particles such as phonons, magnons, excitons. Fermi gas of electrons, energy bands, semiconductor crystals, and photoconductivity.

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# **PHYS 493 Internship in Physics**

var-1-3sh

**Prerequisites:** PHYS 350; completion of ninety credits with a minimum of 2.5 GPA and approval of the internship education coordinator

A supervised professional work-experience in physics and applied physics. Location, duties, internship, and hours are individually tailored to the student's career goals. A maximum of 3sh of internship in the student's major may be applied toward the physics major area elective requirements. Additional internship credit must be used as free electives. Evaluation requirements include on-site visitations by the faculty/coordinator, consultation with the on-site supervisor, and a major progress report by the student or the presentation of a detailed oral report before the departmental internship education committee.

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# **Political Science**

# **Department of Political Science College of Humanities and Social Sciences**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

PLSC 101 PLSC 111 PLSC 250 PLSC 251 PLSC 280 PLSC 281 PLSC 282 PLSC 283 PLSC 285 PLSC 300 PLSC 320 PLSC 321 PLSC 346 PLSC 350 PLSC 351 PLSC 353 PLSC 354 PLSC 355 PLSC 356 PLSC 358 PLSC 359 PLSC 360 PLSC 361 PLSC 362 PLSC 370 PLSC 371 PLSC 377 PLSC 380 PLSC 382 PLSC 383 PLSC 384 PLSC 385 PLSC 386 PLSC 387 PLSC 388 PLSC 389 PLSC 389 PLSC 480 PLSC 481 PLSC 482 PLSC 493

#### **PLSC 101 World Politics**

3c-01-3sh

An analysis of contemporary (post-1945) state system and forces shaping the world in which we live. Student is given a framework within which to analyze contemporary international politics.

#### **PLSC 111 American Politics**

3c-01-3sh

An introduction to American national government and politics, emphasizing Constitution, party system, Congress, Presidency, courts, and problems in national-state relations, civil rights, foreign policy, and social and economic policies.

#### **PLSC 250 Public Policy**

3c-01-3sh

Emphasizes dynamics of government as they are evidenced in public opinion, pressure groups, political parties, and our governmental institutions; attention also directed toward the political-economical nexus within American society.

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# PLSC 251 State and Local Political Systems

3c-01-3sh

Institutions and processes of state and local governments, with special attention to Pennsylvania; emphasis on the nature of federalism, state constitutions, and role of state and local government in an urban society.

# PLSC 280 Comparative Government I: Western Political Systems

3c-01-3sh

Analyzes Western political systems with emphasis upon major contemporary democratic governments of Europe. Analyzes and compares their political cultures, political institutions, and political processes.

# **PLSC 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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#### **PLSC 282 International Relations**

3c-01-3sh

Provides a conceptual framework for understanding sovereignty, nationalism, power, security, dispute settlement, and diplomatic, legal, economic, and military relations of nation-states.

# **PLSC 283 American Foreign Policy**

3c-01-3sh

Examines formulation and execution of American foreign policy, with attention to governmental institutions, mass media, interest groups, and public opinion; emphasizes contemporary problems.

# PLSC 285 Comparative Government II: Non-Western Political Systems

3c-01-3sh

Analyzes major non-Western political systems with emphasis upon authoritarian and totalitarian systems. Analyzes and compares in a systematic manner their political cultures, political institutions, and political processes.

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#### PLSC 300 Research Methods in Political Science

3c-01-3sh

**Prerequisite:** PLSC 101 or PLSC 111

An examination of the application of the scientific approach to the investigation of social and political phenomena. Concentrates on approaches, methods, and computer tools. All political science majors and minors are strongly urged to enroll.

# **PLSC 320 International Law**

3c-01-3sh

Prerequisites: PLSC 101, PLSC 281, or permission of instructor

The study of the development, nature, and function of international law, including recent trends.

#### **PLSC 321 International Organizations**

3c-01-3sh

**Prerequisites:** PLSC 101, PLSC 281, or permission of instructor

An inquiry into purposes, structures, and actions of contemporary international political organizations, such as United Nations, regional, and functional organizations.

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#### PLSC 346 Political Sociology

3c-01-3sh

Prerequisites: PLSC 111, SOC 151

Examines (a) who controls the state and state policy, (b) the role the state plays in stabilizing capitalism and protecting the power of the upper class, (c) the political activities of the middle and upper class, (d) labor, civil rights, welfare rights, and social movements in America. Cross-listed as SOC 458.

#### **PLSC 350 The Presidency**

3c-01-3sh

An examination of the Office of President, with attention to constitutional foundations, evolution, structure, powers,

and functions; some comparisons between presidential and parliamentary systems and between offices of President and governor.

# **PLSC 351 Legislative Process**

3c-01-3sh

A functional study of legislative bodies and process of legislation, covering organization of legislative assemblies, operation of committee system, procedures, bill drafting, aides, and controls over legislation.

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#### **PLSC 353 American Political Parties**

3c-01-3sh

The role of people, parties, and pressure groups in politics of American democracy; attention to sectional and historical roots of national politics, voting behavior, pressure group analysis, and campaign activities.

# **PLSC 354 Metropolitan Problems**

3c-01-3sh

Analyzes multiplicity of problems facing our metropolitan areas. Contemporary developments such as urban renewal, shrinking tax base, federal aid to cities, subsidized mass transit, municipal authorities, and political consolidation are examined.

# **PLSC 355 Intergovernmental Relations**

3c-01-3sh

Explores characteristics of federal systems of government, with emphasis on theories, origins, institutions, problems in intergovernmental relations in the United States, federal systems in other nations, and trends.

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#### PLSC 356 Mass Media in American Politics

3c-01-3sh

Variant theories of the symbolic relationship between American politics and the press are examined in the light of the American colonial-national experience. The special Constitutional rights given to the media are explored, with particular attention to radio-TV.

#### **PLSC 358 Judicial Process**

3c-01-3sh

**Prerequisite:** PLSC 111

Explores nature and limits of judicial power, courts as policymaking bodies, selection of judges, decision process, external forces impinging on the courts, and role of Supreme Court in its relationship with Congress, the Presidency, and federalism.

#### PLSC 359 Constitutional Law and Civil Liberties

3c-01-3sh

**Prerequisite:** PLSC 111

A study of civil liberties and civil rights issues through leading Supreme Court decisions; topics treated include First Amendment rights, procedural due process and the Bill of Rights, and Equal Protection problems in civil rights.

#### Back to Top

# PLSC 360 Classical Political Thought

3c-01-3sh

#### **Restriction:** Not for credit after PHIL 323

The origins and development of Western thought from Plato and Aristotle through Cicero and Saint Aquinas. The focus is especially on political participation as a way of life, the unity of political and moral conceptions in premodern political thought, and the relationship between order and justice.

#### **PLSC 361 Modern Political Thought**

3c-01-3sh

Covers the major representatives of modern political thought since the Renaissance. Follows the development of the specifically modern notion of the state and political action through the works of Machiavelli, Hobbes, Locke, Rousseau, Marx, and Lenin. Emphasis will be on the "instrumentalist" state and the idea of a political science.

# **PLSC 362 American Political Thought**

3c-01-3sh

Covers a variety of American political ideas from the Puritans through recent radical and conservative critiques of American liberal democracy. Focus on the continuing development of the idea of individual rights, the political theory of the Constitution, and the tension between classical liberalism and popular rule.

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#### PLSC 370 Introduction to Public Administration

3c-01-3sh

Theories of organization and structural organization, personnel processes, executive functions, financial administration, the politics of administration, public relations, and problems of democratic control of bureaucracy.

#### PLSC 371 Issues in Public Administration

3c-01-3sh

An intensive study of the role of federal agencies and their administrators in determining and developing public policy. Public administration in practice is emphasized by utilizing case studies.

#### **PLSC 377 Political Behavior**

3c-01-3sh

Prerequisites: PSYC 101, PLSC 111

An interdisciplinary course which investigates the psychological bases of political behavior. Cross-listed as PSYC 377.

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#### **PLSC 380 Soviet Politics**

3c-01-3sh

Essential features of Communist party and government of the former U.S.S.R., including geographical and historical background and ideological and theoretical foundations. <u>PLSC 280</u> should be taken prior to this course. (Course content is in revision to reflect changing structure.)

#### PLSC 382-387 Political Systems

3c-01-3sh

Intensive, comparative study of the government and politics of a selected region. Suggested prerequisites: <u>PLSC 280</u> and/or <u>PLSC 285</u>; PLSC 382 Africa; PLSC 383 Asia; PLSC 384 Middle East; PLSC 385 Central and Eastern Europe; PLSC 387 Latin America

# PLSC 388 Political-Military Strategy

3c-01-3sh

Prerequisites: PLSC 281 or PLSC 283 or MLSC 101-102

Deals with national security problems including decision making and budgeting, levels of strategy, the utility of force, and the impact of the military on American society.

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# **PLSC 389 Developing Nations**

3c-01-3sh

**Suggested prerequisites:** PLSC 280 and/or 285

Political characteristics of emerging nations; impact of economic and social change upon political structure; evolving patterns of political development; and techniques of nation-building.

# **PLSC 480 Political Science Seminar**

3c-01-3sh

Readings and written assignments on a specific topic determined by the instructor in charge.

# **PLSC 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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# PLSC 482 Independent Study

var-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

#### **PLSC 493 Political Science Internship**

var-2-12sh

**Prerequisites:** 9sh in Political Science with 2.0 QPA; <u>PLSC 111</u>; approval of internship director and chairperson Practical experience in government and politics. "Log" and research project required. Course grade determined by the instructor. Maximum of 6sh applied to minimum in major; maximum of 3sh applied to minimum in minor.

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# **Psychology**

# **Department of Psychology**

**College of Natural Sciences and Mathematics** 

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

PSYC 101 PSYC 280 PSYC 290 PSYC 291 PSYC 310 PSYC 311 PSYC 312 PSYC 315 PSYC 320 PSYC 321 PSYC 325 PSYC 330 PSYC 331 PSYC 335 PSYC 341 PSYC 342 PSYC 345 PSYC 350 PSYC 355 PSYC 356 PSYC 371 PSYC 372 PSYC 374 PSYC 375 PSYC 376 PSYC 378 PSYC 379 PSYC 390 PSYC 410 PSYC 411 PSYC 421 PSYC 425 PSYC 450 PSYC 480 PSYC 481 PSYC 482 PSYC 493

#### **PSYC 101 General Psychology**

3c-01-3sh

An introduction to the scientific study of behavior and mental processes.

# **PSYC 280 Psychological Inquiry**

3c-01-3sh

**Prerequisites:** PSYC 101, Psychology minors

Introduces students minoring in Psychology to issues central to carrying out and interpreting empirical research in the field. Students will become more sophisticated consumers of empirical research findings. Students who have successfully completed <u>PSYC 290</u> are not permitted to take this course for credit.

# PSYC 290 Research Design and Analysis I

3c-21-4sh

Prerequisites: PSYC 101, MATH 217

A laboratory course devoted to designing, conducting, and evaluating results of psychological experiments.

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#### PSYC 291 Research Design and Analysis II

3c-21-4sh

**Prerequisites:** <u>PSYC 101</u>, "C" or better in <u>PSYC 290</u> A continuation of Research Design and Analysis I.

#### PSYC 310 Developmental Psychology

3c-01-3sh

Prerequisite: PSYC 101

Comprehensive study of all factors that contribute to human development from conception to death, particularly as they relate to psychological development of individual. A survey course directed at students not planning to take <u>PSYC 311</u>, <u>312</u>, or 373. Students may receive credit towards the Psychology major or minor for only one of <u>PSYC 310</u>, <u>311</u>, <u>315</u>.

# **PSYC 311 Child Psychology**

3c-01-3sh

Prerequisite: PSYC 101

The study of factors that influence total development and behavior of child. Current theories and research are considered, with focus upon optimum development of individual. Students may receive credit towards the Psychology major or minor for only one of PSYC 310, 311, or 315.

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#### **PSYC 312 Adult Development and Aging**

3c-01-3sh

Prerequisite: PSYC 101

A survey of physiological, cognitive, emotional, and social issues affecting the young adult, the middle-aged, and the elderly. Includes an examination of significant adult life crises.

# **PSYC 315 Experimental Development Psychology**

3c-21-4sh

Prerequisite: PSYC 280 or PSYC 290

Studies human development from conception to death with emphasis on the physical, cognitive, and emotional domains. Students will be involved in observation and data collection. Students may receive credit towards the Psychology major or minor for only one of PSYC 310, 311, or 315.

# **PSYC 320 Personality**

3c-01-3sh

Prerequisite: PSYC 101

Provides comparative analysis of major representative traditional and contemporary theories of personality.

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#### **PSYC 321 Abnormal Psychology**

3c-01-3sh

Prerequisite: PSYC 101

The description, causes, and treatment of behaviors labeled abnormal in our society are studied from experimental and clinical points of view.

#### **PSYC 325 Psychological Testing and Measurement**

3c-21-4sh

**Prerequisites:** PSYC 101, MATH 217, sophomore standing

Presents a series of focused discussions on principles, methods, and issues of psychological measurement. Also describes the major psychological tests currently in use and illustrates the administration and scoring of these tests. The laboratory activities are intended to provide hands-on experiences in computerized analysis and evaluation of psychological tests, to demonstrate test administration and scoring in practical settings, and to enhance the understanding of psychological testing through class projects. (Offered as PSYC 322 prior to 2000-01)

# **PSYC 330 Social Psychology**

3c-01-3sh

Prerequisite: <u>PSYC 101</u>

The study of the effects of the social environment on human behavior. Topics include perception of person, attitude formation and change, and small-group interaction. Students may not receive credit toward psychology major or minor for both PSYC 330 and 335.

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# **PSYC 331 Environmental Psychology**

3c-01-3sh

**Prerequisite:** PSYC 101

The study of the relationship between human behavior and its environmental context. Emphasis will be on the physical environment, both natural and built.

# **PSYC 335 Experimental Social Psychology**

3c-21-4sh

Prerequisite: PSYC 280 or PSYC 290

A laboratory course in the effects of the social environment on human behavior. Topics include perception of persons, attitude formation and change, and small-group interaction. Includes experience with social psychological research methods. May not be taken for credit by students who have completed <u>PSYC 330</u>.

# **PSYC 341 Conditioning and Learning**

3c-2l-4sh

Prerequisites: PSYC 101, 290

An examination of the basic principles of learning and related phenomena; discussion of classical conditioning, discrimination learning, and aversive control of behavior.

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# **PSYC 342 Human Cognition: Memory and Thinking**

3c-21-4sh

Prerequisites: PSYC 101, 290

A study of methods and findings in areas of human memory and human information processing. Students may not receive credit towards the psychology major or minor for both PSYC 342 and 345.

# **PSYC 345 Introduction to Human Cognition**

3c-01-3sh

Prerequisite: PSYC 101

Designed to provide an overview of cognitive psychology. The Information Processing Model is contrasted with its predecessor, Behaviorism, and its contemporary challenger, Connectionism. Students may not receive credit towards the psychology major or minor for both PSYC 342 and 345.

# **PSYC 350 Physiological Psychology**

3c-21-4sh

Prerequisites: PSYC 101, 290

A study of the relationship between behavior and the anatomy and physiology of the nervous system. Students may not receive credit towards the Psychology major or minor for both PSYC 350 and 356.

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#### **PSYC 355 Comparative Psychology**

3c-01-3sh

Prerequisite: PSYC 101

A survey of animal behavior patterns and control mechanisms including learning, development, communication, and social behavior. Emphasis is on the relationship of the animal to its environment and on the relationship of animal models to human behavior.

# **PSYC 356 Biopsychology**

3c-01-3sh

**Prerequisites:** PSYC 101

A study of the relationship between behavior and the anatomy and physiology of the nervous system. Students may not receive credit towards the Psychology major or minor for both PSYC 350 and 356.

#### **PSYC 371 Human Motivation**

3c-01-3sh

Prerequisite: PSYC 101

A systematic study of how behavior is initiated, sustained, directed, and terminated. Current theories in this area are critically reviewed.

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# **PSYC 372 Drugs and Behavior**

3c-01-3sh

**Prerequisites:** <u>PSYC 101</u> and junior standing or permission

A survey of the current knowledge concerning the actions of drugs. Topics will include legal and social issues surrounding drug use, hazard potential of commonly used drugs, review of current theories and issues regarding the use of drugs in psychotherapy, and consideration of treatment approaches for addiction.

# **PSYC 374 Stress and Coping**

3c-01-3sh

Prerequisite: <u>PSYC 101</u>

Fundamental concepts and findings in stress and stress-related disorders. Relationships of stress to disease and methods for coping with stress are presented.

#### PSYC 375 Mass Media and Behavior

3c-01-3sh

**Prerequisites:** PSYC 101 and junior or senior status

Theory and research on the influence of the mass media on human behavior and attitudes. Topics include: the effects of news and political advertising on public opinion; the effects of racist and sexist portrayals; and the effects of violence and pornography on aggressive behavior. (Also offered as COMM 375; may not be taken for duplicate credit)

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# PSYC 376 Psychology of Health Behavior

3c-01-3sh

**Prerequisite:** PSYC 101

An examination of the role of behavior factors in health status with a strong focus on preventive health behaviors and the role of the psychologist in promotion of health-related behavioral changes.

#### PSYC 378 Psychology of Death and Dying

3c-01-3sh

Prerequisite: PSYC 101

Theories and research which delineate the psychological factors affecting the dying person as well as those persons close to one who is dying are discussed.

# **PSYC 379 Psychology of Human Sexuality**

3c-01-3sh

Prerequisite: PSYC 101

Provides an overview of the psychological issues and research relevant to sexuality with an emphasis on gender roles. Social, psychological, and gender perspectives are used to examine a number of topics, including contemporary sexual attitudes, sexual response, sexual relationships, sexual dysfunction, sexual variations, sexual preference, and sexual violence. Research pertaining to each topic is presented. Students are encouraged to critically evaluate research and theory and to make connections between the material and their personal experience.

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# **PSYC 390 Industrial-Organizational Psychology**

3c-01-3sh

Prerequisites: PSYC 101, MATH 214/217

The study of psychological principles in work organizations; application of psychological theory to the understanding and explanation of individual behavior and experience in work organizations. May not be taken for credit by students who successfully completed <u>PSYC 425</u>.

# **PSYC 410 Historical Trends in Psychology**

3c-01-3sh

**Prerequisite:** PSYC 101, junior or senior standing or permission

A comprehensive overview of historical antecedents of contemporary psychology with emphasis on their implications for future developments in the field.

# **PSYC 411 Psychology of Women**

3c-01-3sh

Prerequisites: PSYC 101, junior or senior standing or permission of the instructor

A critical examination of the assumptions about women which are held by the discipline of psychology, considering both current research and individual experience. The psychological effects of socialization on sex role identity, achievement, interpersonal power, mental health, and critical incidents in female development are discussed in the context of relevant concepts from developmental and social psychology.

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# **PSYC 421 Psychology of Work**

3c-01-3sh

Prerequisite: PSYC 291

The analysis, measurement, prediction, and development of human aptitude, ability, and performance in work and employment situations.

# PSYC 425 Experimental Organizational Psychology

3c-21-4sh

**Prerequisite:** 12 credits of psychology (including <u>PSYC 290</u>, beyond <u>PSYC 101</u>)

Introduces the student to theory, research, and methods in the investigation of human behavior and experience in organizations. Both classical and current literature in the field are discussed. In addition to lecture, students will conduct empirical research projects.

# **PSYC 450 Introduction to Clinical Psychology**

3c-01-3sh

**Prerequisites:** PSYC 101, 320, 321, and permission of instructor

An overview of clinical psychology, with emphasis on clinician's use of methods of evaluation and on treatment and modification of behavior.

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# **PSYC 480 Honors Seminar in Psychology**

3c-01-3sh

A seminar in the graduate tradition with a specialized topic. May be taken more than once to a maximum of 6sh.

# **PSYC 481 Special Topics in Psychology**

var-1-3sh

**Prerequisites:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are offered primarily for upper-level undergraduate students. May be taken more than once to a maximum of 6sh.

#### **PSYC 482 Independent Study in Psychology**

var-1-3sh

**Prerequisites:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Individual students pursue their particular interests in psychology in consultation with a member of the staff. May be

taken more than once to a maximum of 6sh. Approval is based on academic appropriateness and availability of resources.

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# **PSYC 493 Psychological Practicum**

var-1-12sh

**Prerequisites:** PC101 and department consent

Under supervision of psychology department, selected students receive experience in application of psychological techniques. May be taken more than once to a maximum of 12sh.

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# **Quantitative/Business**

Department of Management Information Systems and Decision Sciences Eberly College of Business and Information Technology

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

#### QBUS 215 QBUS 281 QBUS 380 QBUS 401 QBUS 481 QBUS 482

**Note:** All courses at the 300 and 400 level are open only to students with junior or senior standing. All students, regardless of major or program affiliation, must meet course prerequisite requirements in order to enroll for a given course. Business majors (except those majoring in Business Education) who have not achieved Junior Standing are normally not permitted to enroll in 300- or 400-level courses.

# **QBUS 215 Business Statistics**

3c-01-3sh

Prerequisites: MATH 121, MATH 214

Expands upon the probabilistic concepts developed in MATH 214 to orient the student toward managerial decision making using quantitative methodologies. Topics covered include classical regression analysis, forecasting, Bayesian decision theory, linear programming, and simulation.

#### **QBUS 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are primarily for lower-level undergraduate students.

#### **QBUS 380 Introduction to Management Science**

3c-01-3sh

**Prerequisite: OBUS 215** 

Discussion and application of mathematical models used in managerial decision making. Linear programming, Markov processes, queuing theory, EOQ models, and simulation techniques are among the topics covered.

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# **QBUS 401 Forecasting Methods for Business**

3c-01-3sh

**Prerequisite: OBUS 215** 

Designed to train the students to understand the nature of forecasting problems and the techniques of forecasting methods and their business applications. Computer statistical packages are incorporated into the course so that forecasting methods and models can be applied to real-world problems and the relationships that exist between variables can be examined.

#### **QBUS 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

## **QBUS 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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# **Regional Planning**

# **Department of Geography and Regional Planning College of Humanities and Social Sciences**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

RGPL 213 RGPL 281 RGPL 313 RGPL 314 RGPL 316 RGPL 332 RGPL 333 RGPL 350 RGPL 352 RGPL 353 RGPL 412 RGPL 415 RGPL 417 RGPL 454 RGPL 458 RGPL 464 RGPL 468 RGPL 481 RGPL 482 RGPL 493

#### **RGPL 213 Cartography I**

3c-01-3sh

Introduces students to principles of thematic map construction. Emphasis is on the techniques of choropleth mapping and the production of scientific graphs and charts. (Also offered as GEOG 213; may not be taken for duplicate credit)

#### **RGPL 281 Special Topics**

3c-01-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students. (May also be offered as GEOG 281; may not be taken as duplicate credit under same title)

#### **RGPL 313 Cartography II**

3c-01-3sh

**Prerequisite:** RGPL 213

Gives an understanding of the compilation and use of maps and quantitative data. Develops skills essential to the construction of various types of maps. (Also offered as <u>GEOG 313</u>; may not be taken for duplicate credit)

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# **RGPL 314 Map and Photograph Interpretation**

3c-01-3sh

Maps and air photographs, along with remote sensing materials, permit inventory and analysis of geologic, land use, urban development, and other landscape phenomena. The understanding of these materials and associated tools for their use is presented. (Also offered as GEOG 314; may not be taken for duplicate credit)

#### **RGPL 316 Introduction to Geographic Information Systems**

3c-01-3sh

Prerequisite: RGPL 213, or equivalent, or permission of instructor

Automated methods for creating, maintaining, and analyzing spatial data are presented. Topics include 1) specialized GIS hardware and software, 2) vector vs. raster vs. object-oriented spatial data structures, 3) creation and manipulation of geographic data files, 4) database design and management concepts, 5) spatial analysis, and 6) cartographic design. (Also offered as GEOG 316; may not be taken for duplicate credit)

#### **RGPL 332 Urban Geography**

3c-01-3sh

Basic concepts of urban geography including site, situation, function, urban land use, urban structure, and urban hierarchy are introduced. Relationships between urban geography and urban planning are explored. (Also offered as GEOG 332; may not be taken for duplicate credit)

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### **RGPL 333 Trade and Transportation**

3c-01-3sh

Deals with the spatial aspects of transportation systems and their use. Circulation, accessibility, time and distance concepts, and trade patterns are discussed. (Also offered as GEOG 333; may not be taken for duplicate credit)

# **RGPL 350 Introduction to Planning**

3c-01-3sh

An introduction to the profession and activity of contemporary American urban and regional planning. Course emphasis is placed on land use control, design, growth management, and development regulation. The legal and institutional bases of planning practice are covered as well. (Offered as GE360 Introduction to Planning prior to 1996-97)

#### **RGPL 352 Planning Methods**

3c-01-3sh

Research, analytical design, and plan-making techniques in urban and regional planning. Examines basic items necessary to prepare urban and regional comprehensive plans. (Also offered as GEOG 352; may not be taken for duplicate credit) (Offered as GE361: Planning: Basic Studies and Analysis prior to 1996-97)

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## **RGPL 353 Planning Design I**

3c-01-3sh

Introduces students to professional graphic communications. Emphasis is placed on the use of 2-D Computer Aided Design (CAD) applications, plan graphics, and professional standards to represent and solve basic physical planning problems.

#### **RGPL 412 Research Seminar**

3c-01-3sh

**Prerequisite: RGPL 468** 

This senior seminar and workshop is a capstone course that focuses on recent research in the major field. Students carry out a research project on a topic of local or regional importance. (Also offered as GEOG 412; may not be taken for duplicate credit) (Offered as GE312: Research in Geographical Planning prior to 1996-97)

#### **RGPL 415 Remote Sensing**

3c-01-3sh

Deals with air photographs, satellite imagery, thermal sensing, and radar imagery and their application to deriving information about the earth's physical and cultural landscapes. (Also offered as <u>GEOG 415</u>; may not be taken for duplicate credit)

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#### **RGPL 417 Technical Issues in GIS**

3c-01-3sh

**Prerequisite:** RGPL 316

A project-based class in which students learn the skills to develop and maintain a Geographic Information System. Through cooperative learning students will design and implement functional systems. Methods for designing GIS

systems to user specification, data collection, data input, project management, and system documentation are covered. (Also offered as GEOG 417; may not be taken for duplicate credit)

#### **RGPL 454 Planning Design II**

3c-01-3sh

Prerequisites: RGPL 350, RGPL 353 or instructor's permission

Introduces students to the activity of design, design programming, design decision making, and design communications. Focuses specifically on the development of site planning, site analysis, and site design skills as well as the translation of design program elements into physical form. (Offered as GE463 Planning: Design prior to 1996-97; and RGPL 354 Planning Design prior to 2000-01)

#### **RGPL 458 Land Use Law**

3c-01-3sh

**Prerequisite:** RGPL 350

Introduces students to principles of land use law. Focus is on federal constitutional principles and key Supreme Court cases, especially as they relate to actions of local units of government and municipal planning practice. Deals with the present state of land use law and with current trends and issues.

#### **RGPL 464 Land Use Policy**

3c-01-3sh

**Prerequisite:** RGPL 350

Introduces students to and provides an overview of land use issues at the regional, state, and federal levels. Emphasis is placed upon the evolution of contemporary policy strategies, constitutional issues, and regional controversies involved in the regulation of metropolitan growth, central city decline, and management of public lands. (Also offered as GEOG 464; may not be taken for duplicate credit)

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#### **RGPL 468 Planning Theory**

3c-01-3sh

Prerequisite: RGPL 350, RGPL 352, RGPL 354, or permission of instructor

Seminar on contemporary debates concerning planning traditions, principles, and practices. The activity of planning is investigated from several theoretical frames and analytic positions. (Offered as GE462 Planning: Development, Principles, and Theory prior to 1996-97)

#### **RGPL 481 Special Topics**

3c-01-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students. (May also be offered as GEOG 481; may not be taken for duplicate credit under same title)

#### **RGPL 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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#### **RGPL 493 Internship**

var-1-12sh

Professional learning experience with emphasis on application of academic background. Open to majors and minors in regional planning with a total of 57sh and 15sh in the major. See internship supervisor for additional information.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# Rehabilitation

# Department of Special Education and Clinical Services College of Education and Educational Technology

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

RHAB 200 RHAB 211 RHAB 220 RHAB 281 RHAB 312 RHAB 321 RHAB 322 RHAB 360 RHAB 410 RHAB 412 RHAB 422 RHAB 460 RHAB 481 RHAB 482 RHAB 484 RHAB 488 RHAB 493

#### **RHAB 200 Introduction to Rehabilitation**

3c-01-3sh

A foundation for subsequent courses in the rehabilitation sequence. It is also available as a prerequisite or basic course for students interested in the rehabilitation of individuals in our society. Content includes the philosophy, history, major concepts, and current problems and issues.

# **RHAB 211 Medical Aspects of Rehabilitation**

3c-01-3sh

Provides an overview of the etiology and pathology of a range of medical disorders which often require rehabilitative services. Emphasis is placed upon the psychosocial and functional effects of these disorders, vocational implications, and rehabilitative needs.

#### RHAB 220 Neurological Basis of Disability

3c-01-3sh

Prerequisites: EDEX 111, RHAB 200, BIOL 155 or HPED 221

A study of the brain and spinal cord with emphasis on cortical and subcortical mechanisms instrumental in normal motion, coordination, and bodily sensation, exclusive of vision and hearing. Discussion and demonstration of conditions of cerebral palsy, poliomyelitis, traumatic paraplegics, cerebrovascular accident, Parkinson's disease, multiple sclerosis, and rehabilitative procedures.

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#### **RHAB 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

## RHAB 312 Psychological Basis of Disability

3c-01-3sh

A study of emotional and social responses which govern behavior and relationships of handicapped individuals and rehabilitation workers alike, with emphasis on the role of disability in formation of the concept of human worth.

#### **RHAB 321 Principles and Methods of Rehabilitation**

3c-01-3sh

Prerequisites: RHAB 220, RHAB 312, and permission of instructor

Delineates the roles of members of professional disciplines of medicine, psychology, prosthetics, orthodontics, audiology, speech pathology, physical and occupational therapy in restoration of the handicapped; use of diagnostic information; significance and interpretation of medical examination; role of rehabilitation counselor in the agency.

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#### **RHAB 322 Rehabilitation Case Study and Interpretation**

3c-01-3sh

**Prerequisites:** RHAB 220, RHAB 312, or permission of instructor

Purpose and techniques of case history taking; meaning and evaluation of diagnostic information; psychological evaluation in terms of mental ability, personality, attitudes, and dexterity skills; role of disabled individual's family in planning of services; referrals and report writing.

#### RHAB 360 Rehabilitation Counseling: Strategies

3c-01-3sh

Prerequisites: Permission, Rehabilitation majors only

Designed to help students develop competencies in using various counseling techniques with handicapped persons. Various theories of counseling will be explored relative to the rehabilitation setting. It will provide basic counseling skills to upperclass Rehabilitation majors prior to field training.

#### RHAB 410 Vocational Assessment in Rehabilitation Counseling

3c-01-3sh

**Prerequisites:** EDEX 111, RHAB 220, or faculty permission

Provides students with an overview of vocational assessment techniques and instruments for use with rehabilitation clients who are blind, deaf, mentally retarded, or severely physically handicapped. Includes discussion of rehabilitation evaluation.

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#### **RHAB 412 Occupational Aspects of Rehabilitation**

3c-01-3sh

**Prerequisites:** RHAB 220 or permission of instructor

The realism of the world of work and relationship of gainful employment to human autonomy and decision making. Types of jobs, levels of required skills, potential capabilities of the disabled relative to specific job responsibilities, methods of assessing potential job success, and sheltered workshops.

# **RHAB 422 Current Topics in Rehabilitation**

3c-01-3sh

Taken concurrently with RHAB 488 and RHAB 493

A discussion of current topics of interest in the field, such as state and federal legislation, new prosthetic advances, proposals of the National Rehabilitation Association, or recent techniques in working with specific disabilities.

#### RHAB 460 Advanced Rehabilitation Counseling

3c-01-3sh

Prerequisite: RHAB 360

Selected counseling techniques studied and practiced under supervision. Application will be utilized in roles that will approximate the kind of clients encountered in field training.

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# **RHAB 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

# **RHAB 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

#### RHAB 484 Directed Rehabilitation Activities

var-3sh

Prerequisites: Permission, Rehabilitation majors only

A pre-field training experience working with handicapped clients in local facilities. Concrete experience will help the students integrate classroom instruction with field experiences.

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#### RHAB 488 Field Training in Rehabilitation I

var-6sh

**Prerequisites:** All major courses in program

Emphasizes development of the student rehabilitation coordinator by working with disabled clients in a public or private agency. Writing and analysis of case reports, counseling of clients, understanding of agency responsibilities and limitations, referral, follow-up, and final evaluation of the client's ability to function with various degrees of autonomy. Taken concurrently with RHAB 493 and RHAB 422.

#### RHAB 493 Field Training in Rehabilitation II

var-6sh

**Prerequisite:** All major courses in program

Provides a second field experience. Taken concurrently with RHAB 488 and RHAB 422.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# **Religious Studies**

# Department of Philosophy and Religious Studies College of Humanities and Social Sciences

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

RLST 100 RLST 110 RLST 200 RLST 210 RLST 250 RLST 260 RLST 281 RLST 290 RLST 311 RLST 312 RLST 329 RLST 360 RLST 365 RLST 370 RLST 375 RLST 380 RLST 410 RLST 440 RLST 481 RLST 482 RLST 482 RLST 493

# **RLST 100 Introduction to Religion**

3c-01-3sh

An introduction to the academic study of religion through an examination of various dimensions of religious expression and traditions. Covers such areas as problems about definition of religion; approaches to the study of religion; the goals, language, and rituals of religion; cases of religious experience; faith, disbelief, and alternatives to religion; religion and the sociocultural context.

#### **RLST 110 World Religions**

3c-01-3sh

A comparative study of the history, teaching, and rituals of the major religions of the world and their influence on contemporary society. A nonsectarian approach to religions such as Native American religion, Afro-American religion, Judaism, Christianity, and Islam in relationship to Hinduism, Buddhism, Confucianism, Taoism, and Shinto.

# **RLST 200 Religion and Culture: Their Interaction**

3c-01-3sh

A systematic study of the interaction of religions and various components of culture, as a way of understanding the phenomenon of religion. The approach is functional and descriptive; it uses case studies which are chronologically and culturally diverse, covering such areas as religion and politics, economics, arts, science, and literature.

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#### **RLST 210 World Scriptures**

3c-01-3sh

Major sacred writings of Hindu, Buddhist, Zoroastrian, Moslem, Confucian, Taoist, and Judeo-Christian traditions will be studied from point of view of their religious significance.

#### **RLST 250 Understanding the Bible**

3c-01-3sh

An introduction to scholarly methods and major themes necessary to understand the Hebrew Scriptures and the New Testaments of the Judeo-Christian tradition.

#### **RLST 260 American Religious Development**

3c-01-3sh

A survey and analysis of topics which depict the role of religion in the U.S., e.g., American Indian religion; religion and the discovery/colonization/immigration trends of the U.S.; religion and the Constitution; indigenous religious movements; black religion; ecumenism; atheism; cults; mass media and religion; religion in Indiana County.

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#### **RLST 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

#### **RLST 290 Christianity**

3c-01-3sh

A study of the beliefs, practices, significant persons, history, and cultural impact of Christianity.

#### **RLST 311 Eastern Philosophy**

3c-01-3sh

An examination and critique of the philosophies which have shaped Eastern world views and ways of life as found in a representative sampling of Chinese, Japanese, and Indian thought.

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#### **RLST 312 Archaeology and the Bible**

3c-01-3sh

An investigation of religious-historical traditions of the Bible in light of archaeological research. Includes a study of archaeological method and interpretation, discoveries in Egypt, Mesopotamia, and Syro-Palestine as background for understanding the traditions and religious practices and beliefs of Israel, and special questions surrounding the Patriarchal narratives, the Exodus and Conquest, Israel under David and Solomon, the Dead Sea Scrolls, and New Testament times.

#### **RLST 329 Philosophy of Religion**

3c-01-3sh

A philosophical critical examination of religion to include: the nature of religion; religious argumentation; existence and nature of God; meaning and relation of faith and knowledge; theories of origin or religion. (Offered as PHIL 329 prior to 1995-96)

# **RLST 360 African Religions**

3c-01-3sh

An examination of the nature of African traditional religion and how traditional religion, Islam, and Christianity coexist and influence each other.

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#### **RLST 365 Native North American Religions**

3c-01-3sh

An introduction to the indigenous religions of North America and to the peoples who practice these rich and varied approaches to the sacred. This course not only examines major religious themes and dimensions (myth, ritual, ethics, etc.) but includes a historical perspective on North American Indian lifeways. This perspective involves discussion of

the clash with Euro-American values and contemporary native religious responses to social crisis and change.

#### **RLST 370 Religions of China and Japan**

3c-01-3sh

A study of Confucianism, Taoism, Buddhism, Shinto, and popular religion in China and Japan, including historical and theological foundations, development of thought, contemporary expressions, and encounters with the modern world.

# **RLST 375 Religions of India**

3c-01-3sh

A study of Hinduism, Indian Buddhism, Jainism, and Sikhism, including historical and theological foundations, development of thought, contemporary expressions, and encounters with the modern world.

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#### **RLST 380 Islam**

3c-01-3sh

A study of Islam including historical and theological foundations, developments of thought, contemporary expressions, and encounters with the modern world.

#### **RLST 410 Early Christian Thought**

3c-01-3sh

The development of Christian thought approached through an in-depth study of selected writings from the early Church Fathers to the Protestant Reformers.

## **RLST 440 Modern Christian Thought**

3c-01-3sh

An examination of Christian thought, approached through in-depth study of selected writings from major theologians of the nineteenth and twentieth centuries.

#### **RLST 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are offered primarily for upper-level undergraduate students.

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## **RLST 482 Independent Study**

var-1-6sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office Individual students wishing to pursue religious studies interests not covered in the department's regular offering may do so by approval. Upon approval students are guaranteed at least five hours of faculty time per semester hour. All programs of study must be accepted by the department as a whole. May be taken more than once to maximum of 6sh. (This option is available to both Religious Studies majors and nonmajors.)

#### **RLST 482 Independent Study: Honors**

3c-01-3sh

**Prerequisites:** 3.00 QPA, 15sh in Religious Studies, and 3.20 average in departmental courses

Majors in Religious Studies are invited to take 3sh of independent study-designated Honors Project. Upon satisfactory completion, graduation with departmental honors is possible.

# **RLST 493 Internship in Religious Studies**

6-12sh

**Prerequisites:** Junior or senior; Religious Studies major or double major; 2.5 QPA in major; department approval A supervised experience in a public or private organization which extends and complements coursework in Religious Studies.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# **Respiratory Care**

# Department of Nursing and Allied Health Professions College of Health and Human Services

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

RESP 101 RESP 326 RESP 327 RESP 328 RESP 329 RESP 330 RESP 333 RESP 334 RESP 335 RESP 336 RESP 337 RESP 342 RESP 425 RESP 426 RESP 428 RESP 429 RESP 430 RESP 431 RESP 433 RESP 434 RESP 436 RESP 437 RESP 438 RESP 481

# **RESP 101 The Profession of Respiratory Care**

1c-0l-1sh

Introduces the student to the health care environment and specifically the respiratory care profession. Students will visit a hospital respiratory care department and observe basic respiratory patient care procedures.

# **RESP 326 Respiratory Care Clinical Practice I**

var-3sh

First exposure to patient care. An introduction to and practice of basic respiratory care treatment modalities.

# **RESP 327 Pharmacology**

3c-01-3sh

An introduction to pharmacology and therapeutics. Emphasis placed on the drugs used in respiratory care. Drug classification, action, usage, dosage, and availability will be discussed.

#### **RESP 328 Introduction to Respiratory Care**

4c-01-4sh

Topics include medical terminology and an overview of cellular structure and function. Emphasis is placed on neurophysiology, respiratory anatomy, and physiology.

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#### **RESP 329 Respiratory Care Equipment**

4c-01-4sh

An introduction to respiratory therapy equipment, related procedures and principles, techniques and theory of mechanical ventilation. Special emphasis will be given to oxygen delivery systems and the rationale for their use.

#### **RESP 330 Cardiopulmonary Resuscitation**

2c-01-2sh

A comprehensive analysis of the principles and practices of numerous methods of resuscitation.

#### **RESP 333 Respiratory Care Clinical Practice II**

var-4sh

Treatment procedures introduced in Clinical I are continued with greater emphasis on independence. Specialty rotations are added to broaden exposure to respiratory care and critical care.

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# **RESP 334 Respiratory Care Instrumentation and Application**

4c-01-4sh

Provides students with a comprehensive knowledge of mechanical ventilation. The care of critically ill and physiologic consequences of mechanical ventilation will be discussed.

### **RESP 335 Nursing Arts**

3c-01-3sh

An overview of the history of respiratory care and nursing. Topics include medical records, infection control, sterilization, and psychosocial aspects of illness.

#### **RESP 336 Cardiopulmonary Evaluation and Clinical Correlation**

4c-01-4sh

Disease states of the pulmonary and related systems are investigated in progression from etiology through treatment and prognosis.

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#### **RESP 337 Introduction to Pulmonary Function Studies**

1c-01-1sh

The student is introduced to the basic principles of lung volumes, capacities, and their measurement. Blood gas sampling and electrodes are also explored.

#### **RESP 342 Preceptorship in Respiratory Care**

1c-0l-1sh

Prerequisites: RESP 326, 328, 329, 330, permission

An opportunity for students to gain additional clinical experiences in a supervised health care setting. Must meet university and sponsoring preceptorship requirements. May be repeated for a maximum of 5sh. A minimum of 40 hours is required for each credit.

#### **RESP 425 Clinical Case Studies**

3c-01-3sh

Designed to increase the working knowledge of disease states commonly experienced by patients in the critical care setting. Emphasis is placed on recognition and treatment of various disease states. Methods for evaluation and treatment of clinical oxygenation disturbances and acid-base disorders will be explored. Clinical simulations, case studies, and patient management problems reviewed and discussed. Emphasis is on appropriate information-gathering and decision-making techniques.

#### **RESP 426 Respiratory Care Clinical Practice III**

var-5sh

Respiratory care treatment procedures are continued with emphasis on improving proficiency and refining skills. Students will make rounds with physicians.

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#### **RESP 428 Essentials of Electrocardiography**

2c-01-2sh

Designed to acquaint the student with basic principles in cardiac electrodiagnostics. Topics include the technique of ECG testing and fundamentals of ECG arrhythmia recognition.

#### **RESP 429 Design and Function of a Respiratory Care Program**

2c-01-2sh

Basic management principles as they apply to the hospital setting; in particular, respiratory care departments and schools will be discussed.

## **RESP 430 Pulmonary Function Studies**

2c-01-2sh

**Prerequisite:** RESP 337

Introduces the student to the advanced diagnostic studies and equipment necessary for diagnosing and quantifying the various lung diseases. Included are advances in invasive studies and rehabilitation evaluation tools.

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# **RESP 431 Pediatric Respiratory Care**

1c-0l-1sh

**Prerequisites:** RESP 334 and RESP 336

The application of respiratory care to children ages six months to fifteen years is explored. Cardiopulmonary pathophysiology and treatment for the following disorders are discussed: Croup, Epiglottitis, Asthma, Cystic Fibrosis, Congenital Heart Defects, Abdominal and Chest Wall Defects.

## **RESP 433 Respiratory Care Clinical Practice IV**

var-5sh

Rotations on treatment and intensive respiratory care are continued. Advanced rotations are included.

# **RESP 434 Neonatal Respiratory Care**

3c-01-3sh

Basic terminology, anatomy, and pathophysiology of obstetric, fetal, neonatal, and pediatric patients will be presented.

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#### **RESP 436 Respiratory Care Teaching**

2c-01-2sh

An introduction to respiratory education.

#### **RESP 437 Methods in Critical Care**

2c-01-2sh

Critical Care diagnostic and therapeutic modalities pertinent to respiratory care will be discussed. Topics include invasive and noninvasive cardiac monitoring, pulmonary monitoring, neurological assessment, ventilator commitment, and discontinuance.

# **RESP 438 Cardiopulmonary Rehabilitation**

1c-0l-1sh

Techniques and principles associated with cardiopulmonary rehabilitation programs are surveyed. Topics also include the management of chronic pulmonary disease in the home and the application of respiratory equipment and mechanical ventilators in this setting.

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# **RESP 481 Special Topics**

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# **Safety Sciences**

**Department of Safety Sciences College of Health and Human Services** 

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

<u>SAFE 101 SAFE 102 SAFE 111 SAFE 210 SAFE 211 SAFE 231 SAFE 232 SAFE 245 SAFE 281 SAFE 299 SAFE 301 SAFE 303 SAFE 311 SAFE 345 SAFE 347 SAFE 370 SAFE 380 SAFE 399 SAFE 401 SAFE 402 SAFE 412 SAFE 441 SAFE 461 SAFE 462 SAFE 465 SAFE 472 SAFE 481 SAFE 482 SAFE 488 SAFE 493</u>

# SAFE 101 Introduction to Occupational Safety and Health

3c-01-3sh

Covers the theory and history of occupational hazard control, effects of hazards and failures on organizational control and productivity, safety and health legislation, and accident causation. Also previews aspects of recognizing, evaluating, and understanding control of safety and health hazards, acquiring hazard data, and the use of hazard analytical tools. Communication techniques in safety and health management are stressed, along with the development of safety and health programs.

# SAFE 102 Introduction to Mine Safety and Health

3c-01-3sh

Designed to provide the student with an in-depth background of the problems involving mine safety. A historical approach to coal and mineral mining is reviewed; legislative influences such as the Federal Coal Mine Health and Safety Act, the Metal and Nonmetal Mine Health and Safety Act, and the Occupational Safety and Health Act are discussed in depth; mining techniques, methods, and systems are discussed. Management of mine health and safety programs is presented. Federally mandated training of employees is covered. (Offered occasionally)

#### SAFE 111 Principles of Industrial Safety I

3c-01-3sh

Prerequisite: <u>SAFE 101</u>

Stresses an understanding of the complexity of the industrial hazard control problem by thoroughly examining elements of safety and health enumerated in the OSHA promulgated standards and various consensus standards. Emphasis directed at plant layout and design, powered industrial vehicles, boilers and unfired pressure vessels, machine guarding, robotics safety, and an introduction to industrial processes.

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#### SAFE 210 Environmental Safety and Health Regulations

3c-0l-3sh

**Prerequisites:** CHEM 102, SAFE 101, or permission of instructor

Offers the student a practical approach to the understanding of, and compliance with, the various environmental regulations that impact on business. A thorough discussion of the definitions, categories, and evaluation of hazardous materials is included. Environmental laws covered include the Clean Water Act, the Clean Air Act, the Resource Conservation and Recovery Act, the Comprehensive Environmental Response, the Compensation and Liability Act, the Occupational Safety and Health Act, and other related laws.

# **SAFE 211 Principles of Industrial Safety II**

3c-31-4sh

Prerequisite: <u>SAFE 111</u>

Stresses an understanding of the complexity of the industrial hazard control problem by thoroughly examining elements of safety and health enumerated in the OSHA promulgated standards and various consensus standards. Emphasis is placed on personal protective equipment, welding and cutting, walking and working surfaces, materials handling and storage, electrical safe work practices, and construction safety. Application of hazard control strategies is accomplished in laboratory sessions.

# SAFE 231 Principles of Mine Safety I

3c-01-3sh

**Prerequisite:** SAFE 102

Focuses on the various aspects of mining operations such as slope and shaft development; mine design; ground control; hoisting; man-trips; haulage; mining equipment; mine emergency planning and procedures; mine communications and maintenance. (Offered occasionally)

#### **SAFE 232 Principles of Mine Safety II**

3c-01-3sh

Prerequisite: <u>SAFE 102</u>

Covers surface mining operations such as slope stability, equipment, ground water, and control. Mine-related processing operations are discussed. Provides an in-depth study of the various controls of electrical hazards and ignition sources such as permissible equipment and electrical distribution systems. The uses of explosives and blasting practices, handling, storing, and transportation with emphasis on causes of explosion involving dust and gases are discussed. (Offered occasionally)

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#### **SAFE 245 Product Safety**

3c-01-3sh

**Prerequisite:** MA217

Traces flow of applicable legislation dealing with consumerism and product safety. Corporate liability for product safety emphasized through case studies. Students are familiarized with the evolving role of Consumer Product Safety Commission. Corporate management of product development and safety detailed with emphasis on systems safety analysis, standards, and product testing.

#### **SAFE 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

# **SAFE 299 Cooperative Education I**

0c-01-0sh

**Prerequisites:** Approval of academic advisor, co-op coordinator, and department chairperson

The initial experience in a program designed to combine classroom theory with practical application through jobrelated experiences. Open to SAFE majors and minors usually in their sophomore year. Students are employed by organizations outside western Pennsylvania where there is an ongoing hazard control program under the direction of an experienced professional. The student is required to be in good academic standing and to serve a minimum of two alternating work experiences.

#### SAFE 301 Health Hazard Identification

3c-01-3sh

Prerequisites: CHEM 102, PHYS 111, MATH 122, BIOL 155

Provides an understanding of the primary health hazards found in industry and their effects on the human body. Students learn to recognize hazards involved with air contaminants, noise, heat, radiation, chemicals on the skin, and other stressors. Emphasis is placed on the study of occupational disease, industrial toxicology, and use of threshold limit values.

#### SAFE 303 Control of Health Hazards

3c-01-3sh

Prerequisites: SAFE 301, PHYS 112, MATH 217

A study of engineering, administrative, and personal protective equipment as methods of reducing or eliminating hazards to the health of industrial workers. Topics covered include industrial ventilation, noise control, heat control, radiation control, personal protective equipment, and industrial health program.

#### **SAFE 311 Industrial Fire Protection**

3c-01-3sh

Prerequisites: CHEM 102, PHYS 112, SAFE 211

Introduces fundamental concepts in protection of industrial workers and property from fire and explosion. Fire chemistry, control of ignition sources in industry, and properties of combustible materials are discussed. Fire detection and extinguishment are covered along with building construction for fire prevention, life safety, fire codes, and related topics.

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#### **SAFE 345 Systems Safety Analysis**

2c-31-3sh

Prerequisites: <u>SAFE 211</u>, <u>MATH 217</u>

Focuses on the evaluation of system designs using detailed system analysis techniques. Topics covered include system definition, economics of systems safety, systems safety methodology, mathematics of systems analysis including statistical methods, Boolean Algebra, and reliability. Skills gained include the ability to perform preliminary hazard analysis, failure mode and effect analysis, fault tree analysis, and exercises in the application of fault tree analysis to hardware and man/machine systems. Practical analysis work is accomplished in laboratory sessions.

# **SAFE 347 Ergonomics**

2c-31-3sh

Prerequisites: <u>SAFE 301</u>, <u>BIOL 155</u>

An exploration of the principles which control human performance and its effect upon the safety and reliability of systems. Engineering anthropometry, human perception, biomechanics of motion and work posture, work physiology, and human performance measurement are covered in the context of their application in workplace design. Students will be instructed in methodologies for analysis of tasks and human performance requirements. Important human limitations and ergonomic hazard evaluations, such as lifting and repetitive motion tasks, are studied in laboratory sessions.

#### **SAFE 370 Fleet Safety**

3c-01-3sh

**Prerequisites:** SAFE 101, junior standing

Includes topics involved with the development and operation of motor fleet safety programs: driver selection and training, accident investigation and recordkeeping, equipment safety features, preventive maintenance, and driver incentive programs.

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#### **SAFE 380 Institutional Safety Management**

3c-01-3sh

# Prerequisite: Junior standing

Historical aspects of safety for both private and public institutions; introduction to trends in liability and institutional safety regulations. Distinctions will be made between employee, visitor, and patient hazards and their control.

#### **SAFE 399 Cooperative Education II**

0c-01-0sh

**Prerequisite:** <u>SAFE 299</u>

A second experience in a program designed to combine classroom theory with practical application through job-related experiences. Open to SAFE majors and minors usually in their junior or senior year. Students are employed by organizations outside western Pennsylvania where there is an ongoing hazard control program under the direction of an experienced safety professional. The student is required to be in good academic standing and to serve a minimum of two alternating work experiences.

#### **SAFE 401 Mine Ventilation**

2c-3l-3sh

Prerequisites: PHYS 112, SAFE 102, MATH 122, or consent

A study of mine ventilation principles and practices which provide a basic knowledge in design and operation of mine ventilation systems. The topics of airflow physics, ventilation standards, fan fundamentals, pressure losses, required air flows, and overall design are discussed. Specific problems in mine ventilation will be solved. (Offered occasionally)

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#### **SAFE 402 Health Hazard Evaluation**

2c-31-3sh

Prerequisites: SAFE 301, PHYS 112, MATH 217

A lecture/laboratory course which provides a basic understanding of techniques used in measuring and evaluating the magnitude of health hazards in industry. Laboratory sessions provide experience in air sampling, noise measurement, heat measurement, particle size analysis, chemical analysis, and evaluation of industrial ventilation systems.

## **SAFE 412 Hazard Prevention Management**

3c-31-4sh

Prerequisites: MATH 217, MGMT 311, junior standing

Teaches various safety management techniques to identify and prevent the occurrence of hazardous behavior and conditions. Devises methods capable of extracting accurate, meaningful data, of collecting, codifying, and processing hazard and loss incident information, and of utilizing data retrieval systems used in cost/benefit decision-making for hazard prevention, safety program and performance evaluation, and risk management.

#### **SAFE 441 Accident Investigation**

3c-01-3sh

**Prerequisites:** SAFE 101, junior standing or consent

Focuses on various aspects of accident investigation such as recent theories associated with accident causes, investigative techniques, data acquisition, structure of investigative reports, management responsibilities, and remedial actions. Particular emphasis on determining sequence of events to develop management actions which will prevent recurrence of accidents.

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#### **SAFE 461 Air Pollution**

3c-01-3sh

**Prerequisite:** <u>SAFE 301</u> or consent

Focuses on various major aspects of the air pollution problem. Includes sources of pollution, evaluation and engineering of pollutants, government regulations, atmospheric chemistry and dispersion, and human and nonhuman effects. Particular emphasis on information that is practical for the safety management, industrial health, or environmental health professional.

#### SAFE 462 Radiological Health

3c-01-3sh

**Prerequisite:** SAFE 301 or consent

A study of problems associated with ionizing radiation in human environment. Emphasis given to biological effects, radiation measurement, dose computational techniques, exposure control, and local and federal regulations. Study and use of various radiological instruments included.

### SAFE 465 Right-To-Know Legislation

3c-01-3sh

Prerequisites: SAFE 301, SAFE 311, or permission of instructor

Covers both the federal and selected state right-to-know laws and related legislation. The scope, application, and enforcement of the various laws, including specific legal and moral obligations, are discussed. Strategies are explored and developed to identify the means by which employers can gain compliance with regulatory requirements.

# SAFE 472 Process Safety in the Chemical Industry

3c-01-3sh

**Prerequisites:** SAFE 301, SAFE 311, SAFE 345, and senior standing, or permission of instructor Designed to cover all important aspects of loss prevention as it is practiced in the chemical process industries. Its objective is to prepare the safety professional so that he/she may be able to work more effectively with chemists and chemical engineers in joint hazard identification, evaluation, and control projects.

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#### **SAFE 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

#### SAFE 482 Independent Study

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

#### **SAFE 488 Internship**

12sh

**Prerequisites:** Senior standing, all required courses in major, minimum of 2.8 overall and 3.0 GPA in major, and consent

A practicum conducted at an approved occupational setting up to 500 miles away from IUP. Students are required to conduct four major projects. One project will be from each of the following areas: Safety Management, Industrial Safety, Industrial Hygiene, and Fire Protection. Students are accountable to an on-site supervisor and are required to remain in close contact with a Safety Sciences faculty coordinator.

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#### SAFE 493 Internship

var-6sh

**Prerequisite:** Senior standing, all required courses in major

All Safety Sciences majors are expected to take this course. It is conducted away from the university at various industrial enterprises. Students are required to provide their own transportation. Intended to allow the student to apply

hazard assessment and safety management practices to actual industrial situations while at same time being exposed to complexities of industrial environment.

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# **Science**

#### **College of Natural Sciences and Mathematics**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

#### <u>SCI 101 SCI 102 SCI 103 SCI 104 SCI 105 SCI 106 SCI 281 SCI 481 SCI 482</u>

# **SCI 101 Fundamentals of Physics**

2c-21-2.5sh

**Prerequisite:** Elementary Education major or instructor permission

A conceptual course in physics for Elementary Education majors. High school physics is not a prerequisite. Class and lab presentations concentrate upon dispelling naive concepts and developing a better understanding and appreciation of the physical world. The topics of motion, heat, light, sound, electricity, magnetism, and the nucleus are presented in context with our everyday experiences. Does not fulfill the Liberal Studies requirement except for majors in Elementary and Early Childhood Education.

#### **SCI 102 Fundamentals of Chemistry**

2c-21-2.5sh

**Prerequisite:** Elementary Education major or instructor permission

A survey of chemical principles and concepts. The nature of chemical reactions as applied to technology and its applications to society. The world of consumer chemistry will be explored. The goal is to develop a chemical literacy for the student. A series of laboratory exercises develops concept understanding and process skills. Some individual and group projects will be included. Does not fulfill the Liberal Studies requirement except for majors in Elementary and Early Childhood Education.

#### SCI 103 Fundamentals of Earth and Space Science

2c-21-2.5sh

Prerequisites: <u>SCI 101</u>, <u>SCI 102</u>

An introduction to geology, astronomy, oceanography, and meteorology for Elementary Education majors. Emphasis is placed on the understanding of large-scale processes and how the earth, solar system, and universe work. Lab experiences include hands-on work with earth materials and with instruments from all of our subjects, map, and field trips which may occur during class times, nights, and weekends. Does not fulfill the Liberal Studies requirement except for majors in Elementary and Early Childhood Education.

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#### SCI 104 Fundamentals of Environmental Biology

2c-21-2.5sh

Prerequisites: SCI 101, SCI 102

A basic introduction to the major concepts and principles of ecology and their application to modern living for majors in Elementary and Early Childhood Education.

#### SCI 105 Physical Science I

3c-2l-4sh

A descriptive and conceptual course in physics for the non-Science major. High school physics is not a prerequisite. Content is designed to develop an understanding and appreciation of the physical world around us, to produce changes in attitude and background essential for our modern society, and to clarify the following topics: motion, heat, sound, light, electricity, magnetism, and the structure of matter.

#### SCI 106 Physical Science II

3c-21-4sh

A basic course in environmental and consumer chemistry for the non-Science major. High school chemistry is not a prerequisite. Major topics include humankind's use and abuse of soil, water, air, and energy resources, global food production and hunger, the nuclear industry, and the threat of nuclear war. Consumer topics include vitamins and nutrition, food additives, pesticides, and drugs.

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#### **SCI 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

#### **SCI 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

#### **SCI 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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# **Social Work**

# **Department of Sociology College of Humanities and Social Sciences**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

#### **SOWK 238**

#### **SOWK 238 Introduction to Social Work**

3c-01-3sh

**Prerequisite:** SOC 151 or ANTH 110

Introduction to the dynamics of helping relationships.

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# **Sociology**

# **Department of Sociology College of Humanities and Social Sciences**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

SOC 151 SOC 231 SOC 233 SOC 251 SOC 271 SOC 272 SOC 273 SOC 274 SOC 281 SOC 286 SOC 301 SOC 302 SOC 303 SOC 314 SOC 320 SOC 333 SOC 335 SOC 336 SOC 337 SOC 340 SOC 341 SOC 342 SOC 345 SOC 348 SOC 352 SOC 357 SOC 361 SOC 362 SOC 363 SOC 380 SOC 421 SOC 427 SOC 428 SOC 448 SOC 452 SOC 456 SOC 457 SOC 458 SOC 480 SOC 481 SOC 482 SOC 483 SOC 493

# **SOC 151 Principles of Sociology**

3c-01-3sh

A scientific study of structure and functioning of human societies, with special attention to factors responsible for the organization and transformation of sociocultural systems. Specific course content varies from one instructor to another.

# **SOC 231 Contemporary Social Problems**

3c-01-3sh

An exploration of some pressing problems currently endemic to Western society. Problems are defined and solutions explored in light of historical, political, economic, social, and anthropological data.

#### **SOC 233 Language and Culture**

3c-01-3sh

Focuses on social and cultural functions of language. Particular emphasis on analysis of non-Western languages.

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#### **SOC 251 Sociology of Human Sexuality**

3c-01-3sh

An in-depth analysis of a formerly taboo topic, human sexuality. Current information from biological, psychological, and sociological research on human relationships is presented to provide a foundation for self-understanding and societal values.

#### **SOC 271 Cultural Area Studies: Africa**

3c-01-3sh

Explores the cultural diversity of the continent of Africa. The first unit examines the historical processes which shape modern society, including the formation of indigenous African empires, the evidence for trade routes, slave trading, and colonialism. The second unit examines the nature of African traditional societies, including analyses of forager and agricultural groups. The last unit covers issues of contemporary development in Africa such as famine and agricultural policy, the status of women in economic development, and apartheid. Reading includes ethnographic and historical accounts of African society as well as selections by African writers on the issues of contemporary society. (Also offered as <u>ANTH 271</u>; may not be taken for duplicate credit)

#### **SOC 272 Cultural Area Studies: China**

3c-01-3sh

Designed to assist the student in developing an understanding of contemporary China. While the course will begin with prehistoric and historic aspects of China, the focus will be on contemporary issues presented in the context of sociological theory. Specific Chinese cultural components that will be investigated include values, attitudes, norms, social organization, linguistics, and folklore. (Also offered as <u>ANTH 272</u>; may not be taken for duplicate credit)

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#### SOC 273 Cultural Area Studies: Southeast Asia

3c-01-3sh

An introduction to the peoples and cultures of Southeast Asia. Prehistory and the development of indigenous states in Southeast Asia and analysis of impact of world religions, such as Islam, and Western colonialism. Also examines modern hunter-gatherer and farming societies and discusses contemporary issues in social and economic change, including the "Green Revolution," tropical deforestation, the struggle of ethnic minority tribal peoples, and the plight of Indochinese refugees. (Also offered as <u>ANTH 273</u>; may not be taken for duplicate credit)

#### SOC 274 Cultural Area Studies: Latin America

3c-01-3sh

An introduction to the peoples and cultures of Latin America. Focuses on the prehistory and development of pre-Columbian complex societies in Mesoamerica and the Andes and analyzes the impact of European colonialism on these major regions. Also examines contemporary issues, such as civil wars, economic development, rural-urban migrations, and migration and immigration of Latin American peoples into the United States. (Also offered as <u>ANTH</u> 274; may not be taken for duplicate credit)

### **SOC 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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#### SOC 286 Marriage, Kinship, and the Family

3c-01-3sh

Sociological and anthropological study of patterns of marriage, kinship, and family life, with emphasis on the relationship between family patterns and other social institutions. Topics covered include the family and marriage in historical and comparative perspective; worldwide patterns of gender stratification; incest and incest avoidance; class and race contexts of family patterns; mate selection and love; parenthood and child rearing; domestic and sexual violence; alternative family lifestyles; and the current crisis and possible future of the family. Intended for a broad audience but also open to sociology and anthropology majors and minors. (Also offered as <u>ANTH 286</u>; may not be taken for duplicate credit)

# **SOC 301 Foundations of Sociological Practice**

3c-01-3sh

Prerequisite: **SOC 151** 

Introduces students to the field of sociological practice and develops an understanding of the relevance of micro and macro sociological theory to understanding human problems. Focuses on applications of sociological theory and methods to the helping professions and especially to understanding the interactional aspects of the relationship between service users and service providers. Also acquaints students with the structure of the human service system in American society.

#### **SOC 302 Clinical Sociological Practice**

3c-01-3sh

## Prerequisite: **SOC** 301

Prepares the student to effect constructive change within individuals, groups, families, and communities. Draws its analysis, diagnosis, and methods from the foundations of sociological theory at the level of intervention with clients.

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#### **SOC 303 Social and Cultural Change**

3c-01-3sh

Prerequisite: **SOC** 151

An exploration of current theoretical perspectives on social and cultural change. Special attention given to planned change at the local or regional level.

#### **SOC 314 Native Americans**

3c-01-3sh

A survey of culture history and culture area characteristics of Native Americans of North America. A detailed study of representative groups related to historical, functional, and ecological concepts.

#### **SOC 320 Sociological Theory**

3c-01-3sh

**Prerequisites:** SOC 151 and second-semester sophomore standing

A detailed survey of the historical development of sociological theory from the mid-nineteenth century to the present. Treats the classical theorists Marx, Durkheim, and Weber and such contemporary theoretical schools as functionalism, Marxian and Weberian conflict theory, cultural materialism, social evolutionism, rational choice theory, symbolic interactionism, ethnomethodology, sociobiology, structuralism, and postmodernism. Students are encouraged to take this course in the second semester of their sophomore year or during their junior year.

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#### SOC 333 Delinquency and Youth

3c-01-3sh

Prerequisite: **SOC 151** 

A study of social and cultural factors involved in various youth lifestyles, including delinquency. Cross-cultural and historical approach used in a review of social norms, social control, and socialization institutions and community-based programs for rehabilitation.

#### **SOC 335 Alcohol and Drug Abuse**

3c-01-3sh

Prerequisite: **SOC** 151

Examines the social issues and problems of alcohol and drug misuse in American society. Legal and illegal substances will be considered, and the causes of substance abuse as well as alternatives will be examined.

#### **SOC 336 Sociology of the Family**

3c-01-3sh

Prerequisite: <u>SOC 151</u>

Sociological study of the family from various theoretical viewpoints. Special emphasis will be placed on the contemporary American family. A variety of topics will be covered, such as mate selection, power relationships and roles in the family, parent-child interaction, marital satisfaction, divorce, and others.

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#### **SOC 337 World Societies and World Systems**

3c-01-3sh

**Prerequisite:** One of the following: <u>ANTH 110</u>, <u>ECON 101</u> or <u>121</u>, <u>GEOG 230</u>, <u>HIST 202</u>, <u>PLSC 101</u> or <u>282</u>, <u>SOC 151</u>

A detailed analysis of the evolution of human societies, with special emphasis on the modern world system of societies that began to emerge in the sixteenth century and that has since expanded to include the entire globe. Topics include societies during the preindustrial era; the emergence of modern capitalism in the sixteenth century; relations between developed and less-developed societies in the modern world; the ascent and decline of nation-states in the modern world; the current plight of the Third World; the rise and demise of socialism in the twentieth century; and various scenarios for the human future.

### **SOC 340 Sociology of Industry**

3c-01-3sh

**Prerequisite:** SOC 151

An examination of industrial organizations and their environments. Production systems analyzed in terms of different forms of organization, e.g., bureaucratic, power-equilibrium, and worker-participation. Special attention paid to who defines production, how such definitions are legitimized, and how constraints are placed on such definitions by union and other political organizations.

#### **SOC 341 Sociology of Education**

3c-01-3sh

Prerequisite: **SOC** 151

Examines the place of education in society. Special attention to the development of education in America and its relation to political and economic phenomena. Some attention given to education in other industrial and agrarian societies.

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# SOC 342 Social and Cultural Aspects of Health and Medicine

3c-01-3sh

Prerequisite: 6sh in Sociology or Anthropology

A review of the fields of medical sociology and anthropology. Focuses on such topics as health and illness in cross-cultural context, aging, social and psychological aspects of pain, and social organization of health facilities and services. Definitions of limits of "life" and "death" in context of holistic health.

#### **SOC 345 Interpersonal Dynamics**

3c-01-3sh

Prerequisite: **SOC 151** 

A study of the interaction between and among individuals and groups in various social settings. Emphasis will be on self-understanding, small groups, socialization, social influence and compliance, person perception, collective behavior, and mass communication.

#### **SOC 348 Sociology of Work**

3c-01-3sh

Prerequisite: <u>SOC 151</u>

Focuses upon the sociological examination of the various forms of labor, employment, and unemployment present in industrial societies. Examines the nature of work and unemployment in the modern era and how these forms are being transformed in the present period.

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#### **SOC 352 Sociology of Religion**

3c-01-3sh

Prerequisite: <u>SOC 151</u>

Nature, role, and function of religious phenomena in human societies will be explored with special attention to certain critical issues as they relate to religion and politics and religion and economics. Some fundamental modes of religious life including ritual forms and mythic expressions will be examined. Other themes such as revitalization movements and processes of secularization in modern societies will be included.

# **SOC 357 Sociology of Aging**

3c-01-3sh

Prerequisite: **SOC 151** 

An introduction to various problems faced in the process of growing older. Attitudes of society toward elderly and social and cultural impact of an aging U.S. population examined.

#### **SOC 361 Social Stratification**

3c-0l-3sh

Prerequisite: **SOC 151** 

Examines leading perspectives in the major sociological subfield of social stratification. Attention drawn to different ways of ranking people in human societies, issues concerning the distribution of income and wealth, the role of political power in determining who gets what, and the causes and consequences of social inequality for specific groups.

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#### **SOC 362 Racial and Ethnic Minorities**

3c-0l-3sh

Prerequisite: **SOC 151** 

Examines from a historical and comparative perspective the experiences of minority groups, with special emphasis on economic and political domination, stereotyping, prejudice, and discrimination. Techniques of majority group domination and the responses of minority groups are discussed. Various reasons for the different rates and patterns of assimilation are explored.

# **SOC 363 Sociology of Gender**

3c-0l-3sh

**Prerequisite:** SOC 151

Explores current perspectives on the situations faced by women and men, primarily in the United States. Examines issues such as the impact of sex and gender on socialization, the construction of knowledge, intimate relationships, paid work, family relationships, health, and issues of change.

## **SOC 380 Social Research Methods**

3c-01-3sh

Prerequisites: 9sh in sociology and junior standing

Examines diverse research designs used in the social sciences, i.e., survey, field study, experiment, documentary, and existing statistical data. Focuses both on logic and practice of social research. Students choose a number of miniprojects or a major research project.

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#### **SOC 421 Sociology of Mass Media**

3c-01-3sh

**Prerequisite:** SOC 151

Examines the development of mass media as dominant cultural forms within advanced industrial societies in the twentieth century. Emphasizes critical understanding of the sociohistorical development, the underlying assumptions, and the social implications of the advance of mass media.

#### **SOC 427 Spouse Abuse**

3c-01-3sh

Prerequisite: **SOC 151** 

Considers the range of theoretical explanations for the pervasive violence between husband and wife. Particularly examines the research on wife battering and the implications of this research for programs and policies assisting both the victim and the abuser.

#### **SOC 428 Child Abuse**

3c-01-3sh

Prerequisite: **SOC 151** 

Examines the prevalence, causes, and social implications of physical, sexual, emotional, and neglect forms of child abuse in society. Child abuse will be studied from the individual, family, and societal level perspectives. Potential intervention strategies will also be considered.

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#### **SOC 448 Social Policy**

3c-01-3sh

Prerequisite: **SOC 151** 

Focuses on the formation of social welfare programs in the U.S., current social policy issues, and debates between conservative, liberal, and social democratic policy analysts. Special attention drawn to various social problems and a range of social policies designed to ameliorate the economic disadvantages of single individuals, single parents, and two-parent families. Also devoted to understanding the relationship between social policy, research, and implementation.

### **SOC 452 Disability and Society**

3c-01-3sh

Prerequisite: **SOC 151** 

Analyzes disability from a sociological perspective. Includes consideration of historical and current views of disability and a review of related concepts from the fields of medical sociology and the sociology of deviance. Also includes an analysis of the effects of disabilities on individuals and families through the life course and a consideration of related ethical, economic, political, and social policy issues. The emphasis is on disability as a social construction.

#### **SOC 456 Field Research Methods**

3c-01-3sh

**Prerequisite:** SOC 455 or permission

An examination of methods and practice of sociology and anthropology in the areas of qualitative and field methods. Concentrates upon the development of field notes, interviewing techniques, participant observation, etc. Qualitative methods of sampling and analysis will include theoretical sampling and analytic induction. Brief background research into community, organizational, and group structure will also be emphasized.

#### **SOC 457 Computer Use in Sociology**

3c-01-3sh

**Prerequisite:** Permission of the instructor

Introduces students to use of microcomputers in social science research and practice. Uses a variety of software for clinical sociological applications as well as quantitative analysis of social scientific data. These include client information systems, field notes and downloading such notes, exchanging information between agencies, and statistical analyses for program evaluation and forecasting.

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#### **SOC 458 Political Sociology**

3c-01-3sh

Prerequisite: <u>SOC 151</u>

An examination of the social context of power and politics, with special reference to such topics as who controls the state and state policy; the role of the state in stabilizing capitalism and protecting the power of the upper class; political activities of the middle and upper classes; and labor, civil rights, and welfare rights social movements in America. Especially considers the problems of conducting and implementing social policy research for social change Crosslisted in Political Science as <u>PLSC 346</u>: Political Sociology.

### **SOC 480 Sociology Seminar**

var-1-3sh

Prerequisite: **SOC 151** 

A seminar for advanced students devoted to an intensive analysis of specialized issues within the discipline.

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#### **SOC 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are offered primarily for upper-level undergraduate students.

#### **SOC 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office An opportunity for students to engage in an in-depth analysis of some topic through consultation with a faculty member. A semester project ordinarily expected. Approval is based on academic appropriateness and availability of resources.

### **SOC 483 Readings in Sociology**

var-1-3sh

Prerequisite: **SOC 151** 

Directed readings on special topics in sociology.

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#### **SOC 493 Internship in Sociology**

var-3-12sh

**Prerequisite:** Permission of the instructor

Supervised experience in a public or private organization that extends and complements coursework at the university.

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# **Spanish**

# **Department of Spanish and Classical Languages College of Humanities and Social Sciences**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

<u>SPAN 101 SPAN 102 SPAN 121 SPAN 122 SPAN 131 SPAN 132 SPAN 201 SPAN 221 SPAN 222 SPAN 223 SPAN 230 SPAN 244 SPAN 260 SPAN 281 SPAN 290 SPAN 321 SPAN 340 SPAN 342 SPAN 344 SPAN 353 SPAN 354 SPAN 362 SPAN 364 SPAN 382 SPAN 382 SPAN 383 SPAN 384 SPAN 385 SPAN 389 SPAN 390 SPAN 400 SPAN 402 SPAN 403 SPAN 404 SPAN 410 SPAN 411 SPAN 412 SPAN 413 SPAN 420 SPAN 421 SPAN 430 SPAN 431 SPAN 451 SPAN 481 SPAN 482 SPAN 493</u>

# **SPAN 101 Elementary Spanish I**

4c-01-4sh

For beginning students. Primary emphasis is on aural/oral skills. Students will learn to converse and ask questions in simple present time and become acquainted with location of Hispanic populations and elements of their daily lives. Attendance is required.

### SPAN 102 Elementary Spanish II

4c-01-4sh

A continuation of SPAN 101. Students will learn to express past and future time. They will continue to learn about Hispanic countries and their cultures. Attendance is required.

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# SPAN 121 Spanish for Health Care Professionals I

3c-01-3sh

For beginning students in nursing and other health-related programs. Primary emphasis is on aural/oral skills. Students will learn to converse and ask questions related to health care settings in simple present time and near future. They will also become acquainted with Hispanic populations and elements of their daily lives. Class and language lab attendance are required. A student may receive credit for only one course from SPAN 101, 111, 121, or 131.

#### SPAN 122 Spanish for Health Care Professionals II

3c-01-3sh

**Prerequisite:** SPAN 121 or equivalent

A continuation of SPAN 121 for students in nursing and other health-related programs. Primary emphasis is on aural/oral skills. Students will learn to express past and future time in health care settings. They will read articles about medical issues and short stories which concern health care themes in Hispanic cultures. Class and language lab attendance are required. A student may receive credit for only one course from SPAN 102, 122, 132, or 211.

#### SPAN 131 Spanish for the Hospitality Industry I

3c-01-3sh

Similar to SPAN 101 but with a special emphasis on the vocabulary and structures used in the hospitality industry: hotel and restaurant management, tourism, and marketing. Class and language lab attendance is required. A student

may receive credit for only one course from SPAN 101, 111, 121, or 131.

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# SPAN 132 Spanish for the Hospitality Industry II

3c-01-3sh

**Prerequisite:** SPAN 131 or equivalent

Similar to SPAN 102 but with a special emphasis on the vocabulary and structures used in the hospitality industry: hotel and restaurant management, tourism, and marketing. Class and language lab attendance is required. A student may receive credit for only one course from SPAN 102, 122, 132, or 211.

#### **SPAN 201 Intermediate Spanish**

4c-01-4sh

**Prerequisite:** SPAN 102 or equivalent

A continuation of previous work on listening, speaking, reading, and writing skills. Students will learn to function in everyday situations, expressing opinions and doubts, and narrating and describing in present, past, and future time. Exposure to cultural concepts through literary readings. Liberal Studies credit is given.

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#### **SPAN 221 Intermediate Spanish Conversation**

3c-01-3sh

**Prerequisite:** SPAN 201 or equivalent

Intensive work on oral communication skills with emphasis on vocabulary building, pronunciation, and discourse strategies. Required for all majors and minors.

#### **SPAN 222 Intermediate Spanish Conversation-Business**

3c-01-3sh

**Prerequisite:** SPAN 201 or equivalent

Same as SPAN 221 but with a special emphasis on the vocabulary and structures used in the business world. Substitutes for SPAN 221.

#### SPAN 223 Intermediate Spanish Conversation-Criminology

3c-01-3sh

**Prerequisite:** SPAN 201 or equivalent

Same as SPAN 221 but with a special emphasis on the vocabulary and structures used in law enforcement and criminal justice. Substitutes for SPAN 221.

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#### **SPAN 230 Intermediate Spanish Composition**

3c-01-3sh

**Prerequisite:** SPAN 221 or concurrent registration

Intensive practice in written expression in Spanish. Both communicative and structural skills are stressed. Taught in Spanish. Required for all majors and minors. Approved to meet the Liberal Studies requirement for a writing-intensive course for majors.

#### **SPAN 244 Modern Mexico**

3c-01-3sh

**Prerequisite:** SPAN 201 or equivalent and participation in the Mexico Summer Study Abroad Program Taught in Mexico as part of the study abroad program, introduces students to the contemporary culture of the largest Spanish-speaking country in the world. A historical perspective is provided within which to understand current phenomena. Textbook readings are supplemented with readings from literary works and current periodicals. Students will gain firsthand experience both through field trips and by living with a Mexican family. Taught in Spanish.

#### **SPAN 260 Introduction to Hispanic Literature**

3c-01-3sh

**Prerequisite:** SPAN 230 or equivalent

A prerequisite for any 300- or 400-level course in Hispanic literatures. Designed to provide students with the tools necessary for developing literary competence, the course combines a study of literary genres and analysis with an introduction to the literatures of Spain and Spanish America. Taught in Spanish. Required for all majors and minors.

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#### **SPAN 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

#### SPAN 290 Spanish for Elementary Teaching

3c-01-3sh

**Prerequisite:** SPAN 201 or equivalent oral proficiency rating. For students enrolled in the FLISET Program Designed for Elementary Education/Early Childhood majors who are completing the FLISET Program. The purpose is to increase the students' proficiency in Spanish and to prepare them for an internship in an elementary school abroad. Emphasis is placed on vocabulary acquisition and on strengthening of listening and speaking abilities in Spanish. Through in-class interaction and practice in the language laboratory, students improve their linguistic skills, learn the language necessary for dealing with elementary-age children, and acquire basic vocabulary for teaching the content areas of the elementary school curriculum.

#### **SPAN 321 Advanced Spanish Conversation**

3c-01-3sh

**Prerequisite:** SPAN 230 or equivalent

Extensive practice in oral communication skills. Emphasis is placed on developing fluency in speaking over a wide range of topic areas. Required for all majors and minors.

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#### SPAN 340 Hispanic Civilization Through the 19th Century

3c-01-3sh

**Prerequisite:** SPAN 230 or equivalent

An introduction to the significant aspects of the culture of both Spain and Spanish America. Elements for explanation and discussion are drawn from artistic, literary, religious, geographic, social, and political manifestations of Hispanic culture as these have revealed themselves through the nineteenth century. Taught in Spanish. Required for all majors and minors.

#### SPAN 342 Twentieth-Century Spanish Civilization and Culture

3c-01-3sh

**Prerequisite:** SPAN 230 or equivalent

An analysis of the major cultural trends in twentieth-century Spain as they relate to its current problems, aspirations, and values. Elements for explanation and discussion are drawn from artistic, literary, religious, geographic, social, and political manifestations. Taught in Spanish; offered alternate years. (May not duplicate credit for SPAN 382 taken in Valladolid)

#### SPAN 344 Twentieth-Century Spanish-American Civilization and Culture

3c-01-3sh

**Prerequisite:** SPAN 230 or equivalent

An analysis of the major cultural trends in twentieth-century Spanish America as they relate to its position in the

world. Elements for explanation and discussion are drawn from artistic, literary, religious, geographic, social, and political manifestations, including indigenous cultural influences. Taught in Spanish; offered alternate years.

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#### **SPAN 353 Spanish Phonetics and Phonemics**

3c-01-3sh

An introduction to the phonological study of the sounds and training in pronunciation. The student will learn the theoretical basis for understanding the Spanish sound system and will perfect pronunciation through classroom practice and tapings. Taught in Spanish. Required for Spanish Education majors; highly suggested for Spanish majors.

#### **SPAN 354 Commercial Spanish**

3c-01-3sh

Prerequisite: <u>SPAN 230</u> or equivalent

Designed especially for majors in Spanish for International Trade, this course has three focuses: it teaches students how to do business communications in Spanish; it teaches the vocabulary necessary for dealing with all aspects of trade and commerce; and it introduces students to the special concerns and practices of business in the Spanish-speaking world. Taught in Spanish.

#### SPAN 362 Survey of Peninsular Literature

3c-01-3sh

**Prerequisite:** SPAN 260 or permission

Designed to introduce students to a careful and critical reading of literary texts from Spain read either in their entirety or in select passages. Taught in Spanish; offered alternate years.

#### SPAN 364 Survey of Spanish-American Literature

3c-01-3sh

**Prerequisite:** SPAN 260 or permission

Designed to introduce students to a careful and critical reading of Spanish-American literary texts read either in their entirety or in select passages. Taught in Spanish; offered alternate years.

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#### SPAN 382 -389 Pennsylvania-Valladolid Program

18sh

**Prerequisite:** SPAN 230 and SPAN 260 or permission

Contact chairperson, Department of Spanish and Classical Languages. Courses taken in Valladolid include the SPAN 382-389 and SPAN 482 (3sh). Descriptions below.

#### **SPAN 382 Contemporary Spain**

3sh

**Prerequisite:** SPAN 230 and SPAN 260 or permission

Gives the student a general view of Spain today in the areas of society, economy, and political institutions. (See <u>SPAN</u> 342)

#### Back to Top

#### SPAN 383 Geography and History of Spain

3sh

**Prerequisite:** SPAN 230 and SPAN 260 or permission

Students will be introduced to a panorama of Spanish physical, social, and economic geography, including the recent autonomic division of the country and the communication among the autonomies. Students will also review the history of Spain from the fifteenth century to the present with special emphasis on today's Spanish institutions.

#### SPAN 384 History of Spanish Art

3sh

**Prerequisite:** SPAN 230 and SPAN 260 or permission

Students will be exposed to the richness of art in the Iberian Peninsula and in particular in the area of Madrid and Castilla-Leon. They will study the evolution of Spanish art in history, giving more emphasis to contemporary tendencies.

#### SPAN 385 Survey of Spanish Literature

3sh

Prerequisite: <u>SPAN 230</u> and <u>SPAN 260</u> or permission

Students will be introduced to a general study of Spanish literature from its origin to the present time and will learn to appreciate and analyze the different literary genres. Emphasis will be placed on twentieth-century literature.

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#### SPAN 389 Theory and Practice of Spanish Language

3sh

**Prerequisite:** SPAN 230 and SPAN 260 or permission

Students will be introduced to Spanish syntax, morphology, and the Spanish language lexicon. They will be introduced to familiar and formal conversation and to idiomatic expressions used in everyday situations.

#### SPAN 390 Teaching of Elementary Content Through the Spanish Language

3c-01-3sh

Prerequisites: Passage of a language proficiency examination and permission of the instructor

The student will study current theories of language acquisition processes in children and will develop foreign language instructional objectives and activities which integrate language and cultural learning with the content areas of the elementary school curriculum. Through hands-on practice, the student will develop techniques for teaching functional language, planning lessons, testing language skills, setting curricular objectives, and selecting/designing materials appropriate to the needs and interests of elementary school foreign language learners.

#### SPAN 400 History of the Spanish Language

3c-01-3sh

**Prerequisite:** SPAN 230 or equivalent

Traces phonological, morphological, lexical, and syntactical evolution of Castilian dialect from its origins in vulgar Latin through its development, perfection, and ultimate recognition as the official language of Spain and Spanish America. Places Castilian linguistically with relation to other Romance languages and considers features peculiar to Spanish of Latin America. Taught in Spanish.

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#### **SPAN 402 Translation and Interpretation**

3c-01-3sh

Prerequisite: SPAN 230 and SPAN 321

Fundamental translation skills for use in business and industry as well as in academic and popular fields.

#### **SPAN 403 Applied Linguistics**

3c-01-3sh

**Prerequisite: SPAN 230** 

An introduction to Spanish linguistics for students who have had no previous experience in linguistics. Students will study the application of areas such as phonology, morphology, syntax, and semantics and will explore issues in psycholinguistics and sociolinguistics. Taught in Spanish.

#### **SPAN 404 Advanced Spanish Grammar**

3c-01-3sh

**Prerequisites:** <u>SPAN 221</u> or equivalent and <u>SPAN 230</u> and senior standing or departmental permission An in-depth study of Spanish syntax and morphology. Taught in Spanish. Required for all majors.

#### Back to Top

#### **SPAN 410 Medieval Literature**

3c-01-3sh

**Prerequisite:** SPAN 260 or permission

Reading and discussion of various medieval genres: brief prose narrative, epic, lyric, and didactic poetry, prose, and medieval drama. Taught in Spanish; offered in four-year rotation.

#### **SPAN 411 Golden Age Literature**

3c-01-3sh

Prerequisite: **SPAN 260** or permission

An analysis of themes, motifs, and stylistic devices of Spanish poetry, novel, and theater of the Renaissance and Baroque. Taught in Spanish; offered in four-year rotation.

#### SPAN 412 The Spanish Novel of the 19th and 20th Centuries

3c-01-3sh

**Prerequisite:** SPAN 260 or permission

An analysis of selected novels from three major periods: the nineteenth century, the Generation of 1898, and the post Civil War. Taught in Spanish; offered in four-year rotation.

#### SPAN 413 Spanish Poetry of the Nineteenth and Twentieth Centuries

3c-01-3sh

Prerequisite: **SPAN 260** or permission

The study and analysis of lyric poetry in Spain from nineteenth-century poetry through modernism and its evolution to the present. Taught in Spanish; offered in four-year rotation.

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#### **SPAN 420 Modern Hispanic Theater**

3c-01-3sh

**Prerequisite:** SPAN 260 or permission

The study and analysis of modern dramatic works from Spain and Spanish America. Particular emphasis will be given to the representational aspect of the works. Taught in Spanish; offered in four-year rotation.

#### **SPAN 421 Modern Hispanic Short Story**

3c-01-3sh

**Prerequisite:** SPAN 260 or permission

The critical analysis of short stories by Spanish and Spanish-American authors. Taught in Spanish; offered in four-year rotation.

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#### SPAN 430 Twentieth-Century Spanish-American Prose

3c-01-3sh

**Prerequisite:** SPAN 260 or permission

Traces literary expressions from the turn of the century to the present in the major prose expressions of the essay, the short story, and the novel. Taught in Spanish; offered in four-year rotation.

#### **SPAN 431 Spanish-American Poetry**

3c-01-3sh

**Prerequisite:** SPAN 260 or permission

A study of Spanish American poetry from its early manifestations through modernism, post-modernism, and avant-

garde. Taught in Spanish; offered in four-year rotation.

#### **SPAN 451 Conversation Forum**

2c-01-2sh

Prerequisite: SPAN 321 or equivalent

Extensive work on the development of speaking skills at the "Advanced Low" level of oral proficiency, as defined in the Speaking Guidelines developed by the American Council on the Teaching of Foreign Languages. Focus on paragraph-length discourse and narration and description in present, past, and future time frames within a variety of topics and contexts.

#### **SPAN 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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#### **SPAN 482 Independent Study**

var-1-6sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office An opportunity to engage in an in-depth analysis of some topic dealing with the Spanish language and culture through consultation with a faculty member. Approval is based on academic appropriateness and availability of resources.

#### SPAN 493 Internship

var-3-12sh

**Prerequisite:** One semester of study in a Spanish-speaking country

A supervised field experience in any Spanish-speaking area of the world with approved public agencies and institutions or private firms, no longer than one semester and no less than one month. Positions will be matched as closely as possible with the intern's personal interests and professional goals. For more information contact the Spanish and Classical Languages Department. Maximum of 6sh can be applied toward a major.

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# Speech Pathology and Audiology (formerly Speech and Hearing)

Department of Special Education and Clinical Services College of Education and Educational Technology

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

<u>SPLP 111 SPLP 122 SPLP 222 SPLP 242 SPLP 251 SPLP 254 SPLP 281 SPLP 311 SPLP 334 SPLP 342 SPLP 406 SPLP 408 SPLP 412 SPLP 420 SPLP 481 SPLP 482</u>

#### **SPLP 111 Introduction to Communication Disorders**

3c-01-3sh

An introduction to study of physiological, acoustical, and scientific processes involved in production and reception of speech. The genetic development of speech sounds and factors that hinder or facilitate speech and language acquisition.

#### **SPLP 122 Clinical Phonology**

3c-01-3sh

A detailed study of the classification of American-English phonemes using the physical and acoustical perspectives. Development of proficiency in use of International Phonetic Alphabet for allophonic transcriptions of normal and disordered speech.

#### **SPLP 222 Introduction to Audiology**

3c-01-3sh

The study of auditory function, anatomy of auditory mechanism, psychophysics of sound, types and causes of hearing loss, measurement of hearing, and educational considerations for hearing-handicapped child.

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#### SPLP 242 Speech Science I

3c-01-3sh

The study of the communication process with emphasis on physical characteristics of sound production, transmission and perception of the sound, and the evolvement and use of symbols for meaningful communication. The scientific principles of normal oral communication are stressed, and language learning is recognized as a basis for oral communication.

#### SPLP 251 Anatomy and Physiology of the Speech and Hearing Mechanism

3c-01-3sh

Consideration of genetic development, structure, and function of the organs of speech and hearing. Anatomical systems involved in respiration, phonation, articulation, and hearing and relationships between systems in production and reception of speech.

#### SPLP 254 Classroom Management of Language Disorders

3c-01-3sh

A study of aspects of speech, language, and hearing problems pertaining to classroom situation. Types of speech and hearing disorders, conducting speech and language improvement lessons, classroom aids for teaching the child with language, speech, and hearing impairment, and school and community resources for these children. (Required for majors in Education of the Exceptional and suggested for majors in Elementary Education)

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#### **SPLP 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

#### **SPLP 311 Aural Rehabilitation**

3c-01-3sh

Prerequisite: <u>SPLP 222</u>, 2.5 QPA

Consideration of the effects of varied degrees of hearing loss sustained by individuals at different stages of development and study of total education and rehabilitative procedures for the hard-of-hearing child or adult.

#### **SPLP 334 Language Development**

3c-01-3sh

**Prerequisite:** 2.5 QPA

The study of the development of an interpersonal communication system; language as a system of symbols for communication; the structure of the English language, including phonology, syntax, and semantics with emphasis on the generative evolvement of sentences. Highlighting the neurological, social, and psychological bases of language development.

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#### SPLP 342 Speech Science II

3c-01-3sh

Prerequisite: <u>SPLP 242</u>, 2.5 QPA

Physiologic, acoustic, and perceptual characteristics of speech with special emphasis on speech monitoring and controls. Major lab instrumentation and research techniques in current use are described and demonstrated. The status of present knowledge is summarized and discussed.

#### SPLP 406 Articulation and Language Disorders

3c-01-3sh

**Prerequisites:** <u>SPLP 111</u>, <u>242</u>, <u>251</u>, <u>334</u>, 2.5 QPA

An exploration of the processes related to developmental articulation and language disorders from birth through adolescence. Instruction in the principles underlying modification of these disorders. Preparation of management programs and observation in the Speech and Hearing Clinic required.

#### **SPLP 408 Stuttering and Voice Disorders**

3c-01-3sh

**Prerequisites:** <u>SPLP 111</u>, <u>242</u>, <u>251</u>, <u>334</u>, 2.5 QPA

An introduction to the developmental, psychogenic, and organic bases for stuttering and voice disorders. Instruction in principles underlying treatment of these disorders with emphasis on anatomical deviations and laryngeal dysfunction. Preparation of management plans and observation in Speech and Hearing Clinic required.

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#### SPLP 412 Organization and Administration of Speech and Hearing Program

3c-01-3sh

**Prerequisite:** SPLP 111, 2.5 QPA (meets requirement for Professional Education course)

Establishment and maintenance of speech and hearing programs within various administrative organizations, particularly in the public schools. The techniques of client identification, scheduling, recordkeeping, appropriate referral, material and equipment selection, teacher and parental counseling, and the development of coordinated professional and interdisciplinary procedures.

#### **SPLP 420 Speech Clinic**

var-1-3sh

**Prerequisites:** EDUC 242, EDUC 342, QPA of 3.0+, all major courses, program director's permission An experience in working with individuals or groups of persons who exhibit speech or hearing problems. Lesson planning, writing of reports, and case histories of a detailed nature.

#### **SPLP 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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#### SPLP 482 Independent Study

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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# **Theater**

#### **Department of Theater** College of Fine Arts

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

THTR 101 THTR 102 THTR 110 THTR 116 THTR 120 THTR 122 THTR 130 THTR 131 THTR 150 THTR 201 THTR 202 THTR 202 THTR 221 THTR 223 THTR 240 THTR 250 THTR 260 THTR 270 THTR 280 THTR 281 THTR 290 THTR 301 THTR 302 THTR 310 THTR 320 THTR 321 THTR 322 THTR 323 THTR 340 THTR 341 THTR 342 THTR 345 THTR 347 THTR 350 THTR 351 THTR 353 THTR 481 THTR 482 THTR 483 THTR 484 THTR 485 THTR 486 THTR 489 THTR 493

#### **THTR 101 Introduction to Theater**

3c-01-3sh

An exploration of the theater arts, examining major periods of theater history, selected works of dramatic literature, and the primary theater arts of acting, directing, design, and technical theater. Class experience includes the analysis of at least two major works of drama, attending two live productions, and viewing of selected televised plays and musicals.

#### **THTR 102 Introduction to Dance**

3c-01-3sh

Examines dance as a performing art in both the historical and cultural contexts. Also includes the analysis of a major piece of choreography, attending live performances, and viewing select works of dance. No previous dance experience is required.

#### **THTR 110 Script Analysis**

3c-01-3sh

Examines major as well as alternative systems by which dramatic texts may be analyzed, including classical plot construction, scene structure, tension and release, dramatic rhythms, and several contemporary and less conventional methods of dramatic orchestration.

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#### THTR 116 Fundamentals of Theatrical Design

3c-01-3sh

Introduces the fundamentals of scene, costume, lighting, and sound design for theater and dance. Focuses on creative processes used by designers to make choices. Topics include script analysis, director and designer communication, and the integration of the design elements into a unified production.

#### THTR 120 Stagecraft I

3c-01-3sh

An exploration of the material, methods, and procedures utilized in creating a scenic environment. Through instruction and practical application, students learn the basis of scenic construction and develop competency with the basic

materials and equipment used in a theatrical scene shop.

#### **THTR 122 Costume Workshop**

3c-01-3sh

Instruction and practical experience in the process of building costumes for the stage. Activities include fitting, cutting, sewing, dyeing, and painting. There is also instruction in the maintenance of wardrobe, costume stock, materials, and properties.

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#### **THTR 130 Stage Voice**

3c-01-3sh

**Prerequisite:** Theater majors only, or by permission of instructor

Instruction in basic development of the vocal instrument of the actor in stage performance. Emphasis is placed upon the resonance, quality, pitch, and projection of the voice while improving the student's ability to articulate.

#### **THTR 131 Stage Movement**

3c-01-3sh

Instruction in basic stage movement and the physicalization of character. Includes work in character development through variety in movement, introductory work in juggling, stage combat, and mime, and the assessment, awareness, and correction of individual movement problems.

#### **THTR 150 Fundamentals of Dance**

3c-01-3sh

A basic dance technique that sequentially develops the elements of movement (space, time, force) into a variety of dance genres and period styles. Covers special care and safety of the instrument—the body.

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#### THTR 201 Theater History I

3c-01-3sh

A comprehensive survey of the history, trends, and developments of theater and drama from their beginnings through the English Renaissance.

#### THTR 202 Theater History II

3c-01-3ch

A comprehensive survey of the history, trends, and developments of theater and drama from the English Restoration to the present.

#### THTR 220 Stagecraft II

3c-01-3sh

**Prerequisite:** THTR 120 or permission

An advanced exploration of materials, methods, and procedures involved in creating a scenic environment. Students also receive intensive practical experience in shop planning and supervision to include problem-solving techniques.

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#### **THTR 221 Basic Stage Lighting**

3c-01-3sh

**Prerequisite:** THTR 120

An introduction to lighting instruments, color media, control boards, physical laws of electricity and optics, graphics, and conventional techniques used in lighting theatrical productions.

#### **THTR 223 Makeup for the Stage**

3c-01-3sh

Deals with practical application of straight and character makeup and may include instruction in creating beards, wigs, prosthetics, and masks.

#### THTR 240 Acting I

3c-01-3sh

The study of the primary elements of the Stanislavski system of character development. Includes text analysis and the development of physical action through a character's subtext, as well as motivational and improvisational techniques.

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#### **THTR 250 Contemporary Dance**

3c-01-3sh

Contemporary dance techniques, improvisation, and choreography. Examines the historical development and cultural influences on the changing philosophies of contemporary dance performance today. Performance of creative work required.

#### THTR 260 Jazz Dance

3c-01-3sh

Jazz techniques, dynamics, and style for theater dance from the 1920s through the present. Emphasis will be on analysis of music for choreography.

#### **THTR 270 Ballroom and Tap Dance**

3c-01-3sh

A sequential development of tap and ballroom dance techniques in the context of historical development and period styles. Performance for an audience is required.

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#### THTR 280 Ballet

3c-01-3sh

Sequential development of barre and center techniques that progress to linking moves, turning, and jumps, to dance sequences and choreography. The historical periods of development and the status of the art today will be examined in a cultural context which includes gender and minority influences.

#### **THTR 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

#### **THTR 290 Ethnic Dance**

3c-01-3sh

Includes dance techniques from a variety of indigenous forms from Western and Eastern cultures. Presented in the historical and social context. Emphasis will be given to the needs of theater production.

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#### **THTR 301 Tragic Mask**

3c-01-3sh

A historical survey of theatrical conventions, traditions, and production practices specifically associated with tragedy and its ensuing forms: drama and melodrama. Focuses on landmark dramatic texts, examining the changing faces of tragic masks and their implications for theatrical practice from ancient Greece to the twentieth century.

#### **THTR 302 Comic Mask**

3c-01-3sh

A historical survey of theatrical conventions, traditions, and production practices specifically associated with comedy and its related forms: farce, burlesque, etc. Focuses on landmark dramatic texts, examining the changing faces of comic masks, their conventions, and their implications for theatrical practice from ancient Greece to the twentieth century.

#### THTR 310 Theater Criticism

3c-01-3sh

A study of the theory of criticism and of the discrete functions of critic and reviewer. Students see live performances and practice writing both reviews and criticism.

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#### THTR 320 Scene Design

3c-01-3sh

**Prerequisite:** THTR 120

An introduction to the principles of scenic composition, analysis, concept development, and graphic communication methods used by the scenographer.

#### **THTR 321 Stage Lighting Design**

3c-0l-3sh

**Prerequisite:** THTR 221

Covers the design and execution of stage lighting with emphasis on script analysis, the collaborative role of the lighting designer, lighting theory, and modern stage lighting practices. Practical applications include the conceptualization and designing of production lighting for Proscenium, Thrust, and Arena stages through class exercises.

#### **THTR 322 Costume Design**

3c-01-3sh

Covers design and execution of stage costumes with emphasis on showing how mood and illusion can be created through the proper selection of style, color, and texture, supplemented by an overview of stage costuming.

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#### **THTR 323 Sound Design**

3c-01-3sh

Covers the basic principles and theories of designing sound for the theater. Through demonstration and practical application, covers the following principal areas: basic electronics, recording techniques and equipment, musical and effects integration, theater acoustics, designing sound, and sound reinforcement.

#### THTR 340 Acting II

3c-01-3sh

Prerequisites: THTR 240 or permission of instructor

The study of the evolving Stanislavsky system and its American reinterpretations as applied to realism and other dramatic genres and styles. Emphasis will be on scoring of text, exploring the relationships between psychological states and physical action.

#### **THTR 341 Acting Styles**

3c-01-3sh

Prerequisite: THTR 130, THTR 131, THTR 240 or permission of instructor

A study and practice of advanced acting skills, with special emphasis on style and period. Possible areas of focus: Greek classical, Commedia Dell'Arte (farce), French Neoclassical, Restoration Comedy, Melodrama, High Comedy (Wilde/Coward), or Theater of the Absurd.

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#### **THTR 342 Acting Shakespeare**

3c-01-3sh

**Prerequisites:** THTR 240, THTR 340 (or permission of instructor)

An advanced acting studio which will prepare students to perform in Shakespeare's plays. Provides a background overview of the Elizabethan period in addition to various methods towards approaching the movement, language, and verse forms from an actor's point of view.

#### THTR 345 Touring Young People's Theater

3c-01-3sh

Introduces the fundamentals of young people's theater for audiences aged five through fifteen years. Class members will select appropriate children's literature, develop a script through improvisation, and rehearse and tour their production to the surrounding schools.

#### **THTR 347 Playwriting**

3c-01-3sh

**Prerequisite:** THTR 110, or permission of professor

A practical exploration of the craft and process of playwriting. Focuses primarily on the practical, "hands-on" experiences approximating the "developmental process" currently in use in the American theater. The student will be guided from the initial concept through synopsis, outlines, working drafts, and completion of an original one-act play and a "staged reading" of this project.

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#### **THTR 350 Directing**

3c-01-3sh

**Prerequisites:** THTR 110, THTR 240, permission

An introduction to basic directing skills: casting, floor plans, blocking, rehearsal procedures, and the applications of scene and character analysis. Students will prepare short scenes for class presentation.

#### **THTR 351 Choreography**

3c-01-3sh

**Prerequisite:** One of the following introductory or advanced-level dance classes: <u>THTR 150</u>, <u>250 260</u>, <u>270</u>, <u>280</u>, <u>485</u>; or permission of instructor

Introduces the necessary choreographic tools needed to manipulate dance as a medium to create dance works. The class will learn and use various approaches to the choreographic process to create dance works, one of which will be presented in a public showing at the end of the semester.

#### **THTR 353 Dance Curriculum and Instruction**

3c-01-3sh

**Prerequisites:** One of the following theater courses: <u>THTR 250</u>, <u>260</u>, <u>270</u>, <u>280 290</u>, or <u>485</u>; or permission of instructor Introduces the necessary teaching skills and curriculum development needed to understand the pedagogical structure

for teaching dance. The class will learn the approaches to teaching that are unique to dance and will learn how to design dance curriculum.

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#### **THTR 481 Special Topics**

var-1-6sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

#### **THTR 482 Independent Study**

var-1-6sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office Independent study in theater may be either purely academic or may be a practical production project, supported by a written document giving evidence of significant scholarly investigation or original, creative effort. May be repeated to a maximum of 6sh. Approval is based on academic appropriateness and availability of resources.

#### **THTR 483 Acting Studio**

3c-2l-3sh

**Prerequisites:** Minimum of <u>THTR 240</u>, by permission; individual foci have additional prerequisites An advanced studio course offering scene practice with faculty direction, coaching, and criticism. Specific focus of scene work varies from semester to semester, including improvisation techniques, stage dialects, audition techniques, and acting for the camera as alternating semester options. May be repeated with a different focus each time.

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#### **THTR 484 Directing Studio**

3c-21-3sh

**Prerequisites:** THTR 350, permission

An opportunity for students to direct scene work, one-act plays, or larger projects, according to individual levels of experience, preparation, and readiness. Practical application of principles of directing to specific problems in directing. Student projects performed in public, open-class recitals. May be repeated.

#### **THTR 485 Dance Studio**

3c-01-3sh

**Prerequisites:** THTR 250, 260, 270, or 280 (beginning technique class taken must be the specific dance genre of the Dance Studio class offered); or by permission of instructor

Furthers the development of the dancer at the intermediate level of a specified genre of dance. Development in dance requires the integration of both technique and artistic development. The specific genres vary from semester to semester, including modern, ballet, tap, and jazz as alternating semester options. May be repeated with a different focus each time.

#### **THTR 486 Practicum in Production**

var-.5-4sh

**Prerequisite:** Permission of instructor

An opportunity with academic credit for students to make significant contributions to campus productions augmenting theater coursework in the areas of assistant directing or directing, stage management, technical direction, sound design, lighting, scene design, properties and set decoration, scene building and painting, costuming, dance, and make-up design. May be repeated.

#### **THTR 489 Technical Theater Problems**

3c-01-3sh

**Prerequisite:** Permission of instructor

Open to all students desiring instruction in a variety of technical theater areas not presently covered in other courses. Topics to include sound design, stage management, set props, media make-up, technical drawing/mixed media, and scene painting. May be repeated.

### **THTR 493 Internship**

var-3-12sh

**Prerequisite:** Permission of instructor

Opportunities for students to gain experience with professional performance organizations in areas related to theater and dance.

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# **Universitywide Courses**

#### **Academic Affairs Division**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

#### **UVWD 480 UVWD 493**

#### UVWD 480 T.H.I.S. Seminar

3c-01-3sh

An academic seminar taken at the State System of Higher Education University Center in Harrisburg in conjunction with the T.H.I.S. internship. Consists of public policy information, decision making, and budgeting and addresses question-and-answer sessions with leading state government policymakers. See description under Academic Affairs areas. Restricted to the T.H.I.S. internship participant. See UVWD 493.

#### UVWD 493 T.H.I.S. Internship

var-12sh

A practical experience at the policymaking level of the state government that also requires a research project. Student must have a 3.0 GPA and submit a sample of writing skills with the application to the Experiential Education Office. Open to any IUP major. See description under Academic Affairs areas. Concurrent seminar course required. See UVWD 480.

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# **Vocational Education**

#### **Center for Vocational-Technical Personnel Preparation School of Continuing Education**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

<u>VOED 010 VOED 100 VOED 281 VOED 395 VOED 400 VOED 401 VOED 402 VOED 450 VOED 481 VOED 482</u>

#### **VOED 010 Industrial Electrical Technology**

var-1-18sh

**Prerequisite:** Center/department permission

Emphasis will be on comprehensive industrial electrical technology through training in specialty concentrations applied to design, development, and testing of electrical circuits, devices, and systems for generating electricity and the distribution and utilization of electrical power. Carries institutional credit only.

#### **VOED 100 Preparation of the Vocational Professional I**

var-1-15sh

Personalized, self-paced vocational teacher preparation. The vocational student/intern develops, demonstrates, and documents competence in selected pedagogical competencies. Individualized instruction is supplemented with monthly seminars. Self-evaluation is encouraged in the program, utilizing videotaping and the feedback from a team of professional teacher educators.

#### **VOED 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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#### **VOED 395 Vocational Education Writing Experience**

var-0sh

Writing assignments such as abstracts, logs of activities, philosophy papers, training plans, presentation plans, lesson plans, etc., will be completed in conjunction with selected instructional modules from <u>VOED 100</u> and <u>VOED 400</u> courses.

#### **VOED 400 Preparation of the Vocational Professional II**

var-1-15sh

**Prerequisite:** Successful completion of <u>VOED 100</u>

Personalized, self-paced vocational teacher preparation. The vocational student/intern develops, demonstrates, and documents competence in selected teaching skills in the areas of program planning, program development, program evaluation, and managing and evaluating instruction in a vocational school setting. Self-evaluation is encouraged in the program, utilizing videotaping and the feedback from a team of professional teacher educators.

#### **VOED 401 Special Topics in Vocational Technical Preparation**

var-1-12sh

**Prerequisite:** Center permission

Provides opportunities for vocational students/interns to develop additional technical skills in areas related to their occupational competence under professional supervision. Topics are determined through individual counseling, through priority needs identified by advisory committees, and through evaluation of technical competence by center teaching staff.

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#### **VOED 402 Special Topics in Vocational Pedagogical Preparation**

var-1-15sh

**Prerequisite:** Center permission

Provides opportunities for vocational students/interns to develop additional teaching skills under professional supervision. Topics are determined through identification of priority areas in vocational education using national and state surveys and students' individual needs.

#### **VOED 450 Technical Preparation of the Vocational Professional**

24 ch

Competency assessment of occupational experience through national standardized written and performance examinations.

#### **VOED 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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#### **VOED 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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# Women's Studies

Women's Studies Program Academic Affairs Division

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

#### WMST 200 WMST 281 WMST 481 WMST 482

#### WMST 200 Introduction to Women's Studies

3c-01-3sh

Focuses on women as they are and as they have been—as represented by the work of writers and as presented in the theory and research of various disciplines. Historical and contemporary images of women are examined in terms of their impact on our lives. The relationships of women to social institutions such as education, religion, and health care are explored. Alternative theories explaining the roles and status of women are compared. Attempts to help us understand the choices and experiences women face in their everyday personal, work, and public lives.

#### **WMST 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

#### **WMST 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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#### WMST 482 Independent Study

var-1-3sh

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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# **Administration**

Lawrence K. Pettit, Ph.D., University of Wisconsin, President

- Ruth A. Riesenman, Ed.D., University of Pittsburgh, Executive Assistant to the President
- Helen M. Soltis, M.Ed. The Pennsylvania State University, Interim Assistant to the President for Social Equity

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# **Division of Academic Affairs**

- Mark J. Staszkiewicz, Ed.D., University of Cincinnati Provost and Vice President for Academic Affairs
  - Mark J. Piwinsky, Ph.D., The Ohio State University Associate Provost for Academic Administration
    - LTC Robert Gibson
       Professor, Chairperson, Military Science
    - Lisa Castellino, M.S., Shippensburg University Information Management Analyst
    - Samuel T. Puleio, Jr., M.B.A., Duquesne University Director, Technology Services Center
      - William S. Balint III, B.S., Indiana University of Pennsylvania Coordinator, Applications Development
      - **Todd D. Cunningham**, B.S., Duquesne University Coordinator, User Services
      - Paul M. Grieggs, B.B.A., St. Bonaventure University Coordinator, Technical Services
      - Daniel J. Yuhas, B.S., Indiana University of Pennsylvania Coordinator, Research and Development
    - **J. Richard McFerron**, M.B.A., Indiana University of Pennsylvania Director, Academic Technology Services
  - Valarie J. Mancuso, D.Ed., The Pennsylvania State University Dean, Punxsutawney Campus
    - Joel L. Anderson, M.Ed., Indiana University of Pennsylvania
       Director of Administrative and Student Services, Punxsutawney Campus
  - Patricia D. Scott, M.A., Duquesne University

Interim Dean, Armstrong Campus

- Richard J. Muth, M.A., Indiana University of Pennsylvania Director of Administrative and Student Services, Armstrong Campus
- **Diane L. Duntley**, Ed.D., State University of New York at Buffalo Director, Academic Information Systems
- William H. Nunn, M.Ed., Duquesne University Dean of Admissions
  - Diane R. Raybuck, M.A., Indiana University of Pennsylvania Associate Dean of Admissions
    - Nicole L. Carrera, B.A., Marietta College Assistant Dean of Admissions
    - Elisa M. Goserud, M.Ed., Indiana University of Pennsylvania Assistant Dean of Admissions
    - Peggy L. Akers, A.A., Indiana University of Pennsylvania Transfer Credit Evaluator
- **Richard A. DiStanislao**, M.A., Indiana University of Pennsylvania Registrar
  - Robert J. Simon, B.A., Indiana University of Pennsylvania
     Associate Registrar for Registration, Scheduling, and Technology Support, Office of the Registrar

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- Frederick A. Sehring, M.Ed., University of Pittsburgh Associate Registrar for Academic Support Services
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  - Michele L. Petrucci, Foreign Student Advisor
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  - **Phillip J. Zorich**, M.A., University of Oregon Interim Associate Dean of Libraries
- James C. Petersen, Ph.D., University of Iowa Dean, The Graduate School and Research

• **Michele Sanchez Schwietz**, M.A., Indiana University of Pennsylvania Interim Associate Dean for Research, The Graduate School and Research

- Kim C. Carter, M.P.A., University of Pittsburgh
   Director, Grants and Sponsored Research, The Graduate School and Research
  - Michele A. Norwood, M.A., Indiana University of Pennsylvania Interim Proposal Development Specialist, Grants Office
  - Vacant,

Director, Institute for Research and Community Service

- **Evelyn S. Mutchnick**, Ed.D., Indiana University of Pennsylvania Associate Dean for Administration, The Graduate School and Research
  - **Donna M. Griffith**, M.A., Indiana University of Pennsylvania Assistant Dean, The Graduate School and Research
  - Carol A. Townsend, B.S., Western Illinois University Assistant to the Dean, The Graduate School and Research
- **Nicholas E. Kolb**, Ed.D., George Washington University Dean, School of Continuing Education
  - **George E. Rogers**, M.A., Boston University Assistant Dean for Credit Programs
    - Kay K. Wijekumar, M.S., University of Pittsburgh Director, Distance Education Development
  - Robert A. Friday, Acting Director, Conferences and Noncredit Programs
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Dean, Eberly College of Business and Information Technology

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   Associate Dean, Eberly College of Business and Information Technology
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• Edward W. Nardi, D.Ed., Indiana University of Pennsylvania Interim Associate Dean for Academic Affairs, College of Education and Educational Technology

John R. Johnson, M.Ed., Indiana University of Pennsylvania
 Associate Dean for Teacher Education, College of Education and Educational Technology

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#### • Brenda L. Carter, Ph.D., University of Pittsburgh

Dean, College of Humanities and Social Sciences

• **Alphonse N. Novels**, Ph.D., University of Pittsburgh Associate Dean, College of Humanities and Social Sciences

• Yaw A. Asamoah, Ph.D., Washington University Dean's Associate, College of Humanities and Social Sciences

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Director, Robert E. Cook Honors College

• **Richard D. Kutz**, B.S.Ed., Indiana University of Pennsylvania Assistant Director, Robert E. Cook Honors College

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• Brenda M. Mitchell, M.A., University of Illinois Director, Women's Studies

• Yvonne B. Redd, B.A., Indiana University of Pennsylvania

Assistant to the Provost

- **John G. Grassinger**, M.L.S., University of Pittsburgh Faculty Associate
- Carolyn A. Thompson, M.S., Indiana University of Pennsylvania Diversity Studies

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  - **Helen M. Soltis**, M.Ed., The Pennsylvania State University Assistant to the President for Social Equity/Senior Human Resources Manager
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  - Kathleen Manion, M.B.A., Southern Methodist University Benefits Manager, Human Resources
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# **Division of Finance**

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# **Division of Student Affairs**

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  - Vacant, Assistant Director, Advising and Testing Center
  - Vacant, Advisor, Disabled Student Services
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- **John A. Mills**, Ph.D., ABPP, State University of New York at Buffalo Counseling Psychologist
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Director, University Health Services

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- Associate Director, Nursing Services, University Health Services
- **Malinda M. Cowles**, M.A., Indiana University of Pennsylvania Associate Director, Health Education, University Health Services
- **Ann E. Sesti**, M.A., Slippery Rock University Coordinator of Chemical Health, University Health Services
- Lori M. Harkleroad, RHIA; B.S., University of Pittsburgh Medical Records Coordinator, University Health Services
- Carmy G. Carranza, Ed.D., Grambling State University Director/Chairperson, Learning Center/Act 101
  - **Stacey C. Winstead**, M.A., Slippery Rock University Educational Counselor/Assistant Director, Learning Center/Act 101
  - **Steven C. Ender**, Ed.D., University of Georgia Educational Counselor, Learning Center
  - Cassandra C. Green, M.A., Indiana University of Pennsylvania Educational Counselor, Learning Center/Act 101
  - **Paul E. Hrabovsky**, M.Ed., Indiana University of Pennsylvania Math Specialist, Learning Center/Act 101
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  - **Crawford W. Johnson**, M.A., Atlanta University Educational Counselor, Learning Center/Act 101
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  - Carol A. Tannous, M.A., Indiana University of Pennsylvania Educational Counselor, Learning Center/Act 101
  - **Arden B. Hamer**, EdD., University of Pittsburgh Reading Specialist, Learning Center/Act 101
  - Carolyn J. Wilkie, Ph.D., The Pennsylvania State University Educational Development Specialist, Learning Center/Act 101
- Frederick A. Joseph, M.Ed., Kent State University Director, Financial Aid
  - William M. Srsic, M.Ed., Edinboro State College Associate Director, Financial Aid; Veteran Certifying Officer
  - Christine A. Zuzack, M.A., Indiana University of Pennsylvania Associate Director, Financial Aid
  - **Aileen C. Bowman**, M.S., Indiana University of Pennsylvania Assistant Director, Financial Aid
  - Alisa L. DeStefano, B.S., West Liberty State College Assistant Director, Financial Aid
  - **Patricia C. McCarthy**, M.S., LaRoche College Assistant Director, Financial Aid
  - **Deidre S. Smith**, M.B.A., University of Pittsburgh Assistant Director, Financial Aid
  - **Vonnie D. Hunter**, B.A., Indiana University of Pennsylvania Counselor, Financial Aid
- Elizabeth A. Joseph, M.Ed., Southern Illinois University Director, Housing and Residence Life
  - **Richard L. Baginski**, M.S., Shippensburg University of Pennsylvania Associate Director for Operations
  - James R. Froelicher, B.S., Duquesne University

- Associate Director for Administration
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- Leonard J. Kasubick, Assistant Director for Operations, Technical Specialist
- **Kathleen R. Linder**, M.S., Miami University Assistant Director of Residence Life, Judicial/Recruitment
- **John G. Makara**, M.Ed., The Pennsylvania State University Assistant Director for Operations
- **Julene J. Pinto-Dyczewski**, M.A., Indiana University of Pennsylvania Assistant Director of Residence Life, Training, and Evaluation
- **Melanie K. Wardrop**, B.S.Ed., Indiana University of Pennsylvania Assistant Director for Administration
- **Patrick McDevitt**, B.S., University of Pittsburgh Computer Systems Manager
- James A. Carroll, M.A., Indiana University of Pennsylvania Residence Director
- Susan A. Dawkins, M.A., West Virginia University Residence Director
- **Josette M. Skobieranda**, M.Ed., The Pennsylvania State University Residence Director
- Malaika M. Turner, M.S., Indiana University of Pennsylvania Residence Director
- **Jill A. Yantko**, M.A., Indiana University of Pennsylvania Residence Director
- **Terry Appolonia**, M.A., Indiana University of Pennsylvania Director, Student Activities and Organizations
  - Frank V. DeStefano, M.A., Indiana University of Pennsylvania Associate Director, Student Activities and Organizations/Major Events
  - **Tammy P. Manko**, M.A., Indiana University of Pennsylvania Assistant Director, Student Activities and Organizations/Service Leadership
- Frank J. Condino, Ed.D., West Virginia University

Interim Director, Intercollegiate Athletics

- **Frances A. Nee**, M.Ed., University of Pittsburgh Associate Director, Intercollegiate Athletics
- **Frank J. Cignetti**, M.Ed., Indiana University of Pennsylvania Assistant to the Director/Head Football Coach, Intercollegiate Athletics
- Lisa R. Bash-Ward, B.S., Indiana University of Pennsylvania
   Business Officer, Director of Summer Camps, Athletic Ticket Manager, Intercollegiate Athletics
- **Ryan M. Smith**, M.E., Slippery Rock University Interim Recreational/Facilities Assistant, Intercollegiate Athletics
- **Larry A. Judge**, B.S., Indiana University of Pennsylvania Coordinator, Marketing, Promotion, and Radio Network
- **Michael S. Hoffman**, M.Ed., Florida State University Director, Sports Information
- Dennis V. Hulings, M.A.Ed., Brigham Young University

Executive Director, Student Cooperative Association

- **J. Sam Barker**, B.A., Indiana University of Pennsylvania Director, Program Services
- **Pete Alexander**, B.A., Indiana University of Pennsylvania Director, Co-op Store
  - Terry K. Griffith, B.S., Indiana University of Pennsylvania

Associate Director, Co-op Store

- Louis F. Garzarelli, Jr., B.S., Indiana University of Pennsylvania Director, Campus Recreation
  - Christopher P. Cindric, B.S., Radford University Assistant Director of Campus Recreation, Student Cooperative Association
- Charles Potthast, M.S., Indiana University of Pennsylvania Director, Business Services
  - **Hazel M. Hull**, B.S., Indiana University of Pennsylvania Director of Information Services, Student Cooperative Association
  - Joseph J. Lawley, B.S., Indiana University of Pennsylvania
     Director of Student Publications, Student Cooperative Association

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# **Division of Institutional Advancement**

- Joan M. Fisher, Ph.D., The Union Institute Vice President for Institutional Advancement
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# **University Professors Emeriti**

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- · Richard D. Magee
- Donald A. Walker

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Associate Professor, Mathematics

Catherine R. Stephenson, Ed.D., University of Pittsburgh

Assistant Professor, University School

Rosalee M. Stilwell, Ph.D., Bowling Green State University

Assistant Professor, English

Lloyd K. Stires, Ph.D., Duke University

Professor, Psychology

Robert J. Stonebraker, Ph.D., Princeton University

Professor, Economics

Gary S. Stoudt, Ph.D., Lehigh University

Associate Professor, Mathematics

Rebecca A. Stoudt, Ph.D., Lehigh University

Associate Professor, Mathematics

**J. Cherie Strachan, Ph.D.**, State University of New York at Albany

Assistant Professor, Political Science

Peter M. Sullivan, Ph.D., Johns Hopkins University

Associate Professor, German

Mario Sussmann, Ph.D., University of Illinois

Professor, Psychology

Connie J. Sutton, M.Ed., Indiana University of Pennsylvania

Associate Professor, Geoscience

Mary E. Swinker, Ph.D., The Ohio State University

Associate Professor, Human Development and Environmental Studies

Augusta Syty, Ph.D., University of Tennessee

Professor, Chemistry

Linda F. Szul, D.Ed., University of Pittsburgh

Associate Professor, Technology Support and Training

**Vincent P. Taiani,** Ph.D., State University of New York at Buffalo

Associate Professor, Marketing

Devki N. Talwar, Ph.D., Allahabad University (India)

University Professor and Professor, Physics

Dan J. Tannacito, Ph.D., University of Oregon

Professor, English

John F. Taylor, Ph.D., University of Missouri

Professor, Geoscience

Stephanie A. Taylor-Davis, Ph.D., The Pennsylvania State University

Assistant Professor, Food and Nutrition

Glen M. Tellis, Ph.D., The Pennsylvania State University

Assistant Professor, Special Education and Clinical Services

**Eugene F. Thibadeau,** Ph.D., New York University

Professor, Foundations of Education

John C. Thomas, Jr., J.D., West Virginia University

Professor, Criminology

Carolyn A. Thompson, M.S., Indiana University of Pennsylvania

Associate Professor, Diversity Studies

Richard E. Thorell, M.A., University of Rochester

Associate Professor, Music

**Gordon F. Thornton,** Ph.D., The Ohio State University Professor, Psychology

**Sally W. Thornton,** Ph.D., University of Pittsburgh Associate Professor, Spanish and Classical Languages

**Monte G. Tidwell,** Ph.D., University of Pittsburgh Assistant Professor, Professional Studies in Education

**Gwendolyn B. Torges-Hoffman,** M.A., University of Arizona Assistant Professor, Political Science

**Ronald L. Trenney,** M.S., The Pennsylvania State University Assistant Professor, Health and Physical Education

**Martha A. Troxell,** J.D., L.L.M. (Taxation), Temple University Professor, Finance and Legal Studies

**Lawrence J. Turton,** Ph.D., University of Kansas Professor, Special Education and Clinical Services

**Marie E. Twal,** D.P.H., University of Pittsburgh Assistant Professor, Nursing and Allied Health

**Mark G. Twiest,** Ph.D., University of Georgia Assistant Professor, Professional Studies in Education

**Meghan M. Twiest**, Ed.D., University of Georgia Professor, Professional Studies in Education

**Joan E. Van Dyke,** M.F.A., Arizona State University Assistant Professor, Theater and Dance

**Thomas L. Van Dyke,** Ph.D., Virginia Polytechnic Institute and State University Associate Professor, Hotel, Restaurant, and Institutional Management

**Pothen Varughese,** Ph.D., Kent State University Professor, Chemistry

**Michael W. Vella,** Ph.D., University of California-Davis Professor, English

**Frank A. Viggiano, Jr.,** Ph.D., University of Pittsburgh Professor, Human Development and Environmental Studies

**Judith H. Villa**, Ph.D., University of New Mexico Assistant Professor, English

**Patricia E. Villalobos,** M.F.A., West Virginia University Assistant Professor, Art

**Dorothy C. Vogel,** Ph.D., New York University Professor, History

**Larry A. Vold,** Ph.D., University of Wisconsin Associate Professor, Professional Studies in Education

Janet M. Walker, Ph.D., Oregon State University Assistant Professor, Mathematics

**Bernadette L. Walz,** M.S.N., University of Pittsburgh Associate Professor, Nursing and Allied Health

George B. Walz, Ph.D., Lehigh University

Professor, Psychology

**Xi Wang,** Ph.D., Columbia University Associate Professor, History

**Elaine A. Ware,** Ph.D., Bowling Green State University Assistant Professor, English

**Louise C. Waszak,** Ph.D., University of Pittsburgh Assistant Professor, Nursing and Allied Health

**Veronica M. Watson,** Ph.D., Rice University Assistant Professor, English

Dey W. Watts, Ph.D., Virginia Polytechnic Institute and State University

Assistant Professor, Geography and Regional Planning

Marcia R. Watts, Ph.D., University of Pittsburgh

Assistant Professor, Computer Science

Ronald M. Weiers, Ph.D., University of Pittsburgh

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**Christopher L. Weiland,** M.F.A., Rochester Institute of Technology

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Associate Professor, Theater and Dance

Susan E. Wheatley, Ph.D., University of Michigan

Professor, Music

**Tamara L. Whited, Ph.D.**, University of California-Berkeley

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Professor, Physics

Kustim Wibowo, Ph.D., University of Kentucky

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**Vythilingam Wijekumar,** Ph.D., The Ohio State University

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Assistant Professor, Technology Support and Training

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Assistant Professor, English

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Professor, English

Michael T. Williamson, Ph.D., Rutgers, The State University of New Jersey

Assistant Professor, English

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Associate Professor, Communications Media

**Lorraine P. Wilson,** D.A., Ball State University

Associate Professor, Chairperson, Music

Nanci K. Wilson, Ph.D., University of Tennessee

Professor, Criminology

**T. Kenneth Wilson,** B.A., State University of New York at Buffalo

Associate Professor, English

Ray L. Winstead, Ph.D., North Carolina State University

Professor, Biology

Stacey C. Winstead, M.A., Slippery Rock University

Assistant Professor, Educational Counselor/Assistant Director, Learning Center

Joette M. Wisnieski, Ph.D., University of Georgia

Associate Professor, Management

Robert I. Witchel, Ed.D., University of Georgia

Professor, Counseling

Ronald J. Woan, Ph.D., Florida State University

Associate Professor, Accounting

James L. Wolfe, M.S., The Pennsylvania State University

Associate Professor, Computer Science

Julie A. Wolin, Ph.D., University of Michigan

Assistant Professor, Biology

John T. Wood, Ph.D., University of Pittsburgh

Professor, Chemistry

Dawn E. Woodland, Ph.D., Southern Illinois University

Assistant Professor, Technology Support and Training

John C. Woolcock, Ph.D., University of California-Riverside

Professor, Chemistry

Jason W. Worzbyt, M.M., University of North Texas

Assistant Professor, Music

John C. Worzbyt, Ed.D., University of Rochester

Professor, Counseling

Dieter Wulfhorst, D.M.A., University of Maryland

Assistant Professor, Music

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Professor, Professional Studies in Education

Andrew T. Yang, Ph.D., University of Minnesota

Associate Professor, Computer Science

Stanley J. Yerep, M.Ed., Indiana University of Pennsylvania, C.P.A.

Assistant Professor, Accounting

Kwasi Yirenkyi, Ph.D., University of Pittsburgh

Associate Professor, Philosophy and Religious Studies

Nancy J. Yost, Ph.D., The Pennsylvania State University

Assistant Professor, University School

Caroll M. Young, Ph.D., University of Missouri

Associate Professor, Spanish and Classical Languages

**Keith R. Young,** D.M.A., University of Maryland

Assistant Professor, Music

Mary L. Zanich, Ph.D., University of Pittsburgh

Professor, Chairperson, Psychology

Jun-Lue (John) Zhang, Ph.D., Syracuse University

Assistant Professor, Mathematics

**Sherwood E. Zimmerman**, Ph.D., State University of New York at Albany

Professor, Criminology

Susan T. Zimny, Ph.D., University of Colorado

Professor, Psychology

Phillip J. Zorich, M.A., University of Oregon

Interim Associate Dean of Libraries; Assistant Professor, Libraries and Media Resources

Nashat Zuraikat, Ph.D., University of Pittsburgh

Professor, Nursing and Allied Health

# The following programs maintain permanent agreements of affiliation with IUP:

- Abington Memorial Hospital, Abington
- Altoona Hospital, Altoona
- Elkins Park Hospital, Elkins Park
- Geisinger Medical Center, Danville
- Lancaster General Hospital, Lancaster
- Reading Hospital and Medical Center, Reading
- St. Vincent Health Center, Erie

• University of Hartford, Hartford, Connecticut

Other temporary affiliations are negotiated for the convenience of the student. Professionals at these institutions who have been approved to teach select IUP courses:

# **Medical Technology**

Americo B. Anton, M.D.

Director, Department of Laboratory Services, Altoona Hospital

**Karen Barrett**, Ph.D. (ASCP)

Program Director, School of Medical Technology, University of Hartford

George H. Barrows, M.D.

Medical Director, School of Medical Technology, University of Hartford

Paul J. Cherney, M.D., University of Pennsylvania

Medical Director, Medical Technology Program, Abington Memorial Hospital

James T. Eastman III, M.D., University of Cincinnati College of Medicine

Medical Director, School of Medical Technology, Lancaster General Hospital

Nadine E. Gladfelter, M.S., Temple University

Program Director, School of Medical Technology, Lancaster General Hospital

Phyllis Gotkin, Ph.D., M.T.(ASCP)

Program Director, Clinical Laboratory Science Program, Elkins Park Hospital

Stephen M. Johnson, M.T.(ASCP); M.S., The Ohio State University

Program Director, School of Medical Technology, St. Vincent Health Center

Kenneth H. Jurgens, M.D., State University of New York at Downstate

Medical Director, School of Medical Technology, St. Vincent Health Center

William K. Natale, M.D., University of Pittsburgh; J.D., William Mitchell College of Law

Medical Director, Reading Hospital and Medical Center Laboratory

Joseph R. Noel, B.S., York College

Director, Medical Technology Program, Altoona Hospital

Richard Rupkalvis, M.D., Rush Medical College

Medical Advisor, Clinical Laboratory Science Program, Elkins Park Hospital

Sharon K. Strauss, C.L.S. (NCA) M.T. (ASCP), M.S.; St. Joseph's University

Program Director, School of Clinical Laboratory Science, Reading Hospital and Medical Center

# **Nuclear Medicine Technology**

Elaine M. Markon, R.T.(N), C.N.M.T.; M.S., Ohio University

Program Director, Nuclear Medicine Institute, University of Findlay, Findlay, Ohio

# **Respiratory Therapy**

Jack Albert, R.R.T., C.P.F.T.; M.Ed., University of Pittsburgh

Instructor, School of Respiratory Care, Western Pennsylvania Hospital

Gail W. Druga, A.S., R.P.F.T., C.C.P.T.

Instructor, School of Respiratory Care, Western Pennsylvania Hospital

**Paul Fiehler**, F.C.C.P.; M.D., University of Pittsburgh

Medical Director, School of Respiratory Care, Western Pennsylvania Hospital

**Jeffery Alan Heck**, R.R.T.; M.S., University of Pittsburgh Medical Center

Instructor, School of Respiratory Care, Western Pennsylvania Hospital

Lisa Renee Hershelman, R.R.T.; B.S., Indiana University of Pennsylvania

Respiratory Therapist, Western Pennsylvania Hospital

Kathryn G. Kinderman, R.R.T., C.P.F.T.; M.S., University of Pittsburgh

Richard J. Laurent, R.R.T.; B.S., University of Pittsburgh

Lecturer, St. Francis School of Respiratory Therapy, Pittsburgh

William J. Malley, R.R.T., C.P.F.T.; M.S., University of Pittsburgh

Director, School of Respiratory Care, Western Pennsylvania Hospital

Catherine L. Myers, R.R.T.; M.Ed., The Pennsylvania State University

Instructor, School of Respiratory Care, Western Pennsylvania Hospital

Robin Nitkulinec, R.R.T.; B.S., Indiana University of Pennsylvania

Senior Supervisor, Department of Respiratory Care, Western Pennsylvania Hospital

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# Indiana University of Pennsylvania

2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# **Learning Center**

The Learning Center Student Affairs Division

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

## LRNC 070 LRNC 075 LRNC 090 LRNC 095 LRNC 150 LRNC 160 LRNC 170

# LRNC 070 Reading Skills for College Study

3c-01-3sh

Designed to assist students in the development of college-level reading skills with emphasis on textbook reading. Includes literal and critical comprehension skills, vocabulary development, and reading efficiency. Carries institutional, nondegree credit, and attendance is required.

## LRNC 075 Reading and Study Skills Applications

1c-0l-1sh

**Prerequisite:** LRNC permission

Assists students in the applications of college-level reading and study skills to content-area coursework. Intended for freshman students in poor academic standing who need additional and individualized guidance in the transfer of learning strategies into day-to-day reading and coursework. Students will participate in small-group instruction, as well as individual appointments with the instructor. Carries institutional, nondegree credit, and attendance is required.

#### LRNC 090 Introduction to College Math I

3c-01-3sh

**Prerequisite:** A student may not register for this course after successfully completing any course offered by the mathematics department without the written approval of the Learning Center director

Reviews basic computational skills and their applications. Includes operations with whole numbers, decimals, and fractions; the concepts of ratios, proportions, and percents; basic geometric principles; and an introduction to algebra. Carries institutional, nondegree credit, and attendance is required.

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#### LRNC 095 Introduction to College Math II

3c-01-3sh

**Prerequisite:** A student may not register for this course after successfully completing any course offered by the mathematics department, without written approval of the Learning Center director

Introduces beginning algebraic concepts, including signed numbers; rules and properties of equations; exponents; polynomials; factoring; algebraic fractions; graphs and linear equations, inequalities, and radical expressions. Carries institutional, nondegree credit, and attendance is required.

#### **LRNC 150 Educational Planning**

1c-01-1sh

Introduces students to the system of higher education and to skills that promote effective educational planning and

decision making. Includes the topics of history and purposes of higher education and its changing curricula; models for, and variables to consider in, decision making, goal setting, and educational planning. Note: Certain sections will be restricted to specific enrollment groups. (Offered as ED150 prior to 1997-98)

### LRNC 160 Learning Strategies

1c-0l-1sh

Assists students to develop and use effective and efficient study strategies on a consistent basis. Students will examine their academic goals and implement study strategies to help achieve those goals. Includes the topics of goal setting and self-monitoring, learning styles, test preparation and test taking, lecture and textbook note taking, time management and concentration, and general strategies for learning. Students will be required to give evidence of application of the study strategies to other courses in which they are currently enrolled. Active participation in class meetings is expected. Note: Certain sections will be restricted to specific enrollment groups. (Offered as ED160 prior to 1997-98)

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# **LRNC 170 Career Exploration**

1c-0l-1sh

Introduces students to the theoretical and practical framework with which to explore careers compatible with overall academic skills, aptitudes, and life goals. Students will examine the world of work, assess their interests and abilities, and make realistic decisions on academic majors and careers. Note: Certain sections will be restricted to specific enrollment groups. (Offered as ED170 prior to 1997-98)

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# Indiana University of Pennsylvania

2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# Education

#### **College of Education**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

EDUC 242 EDUC 281 EDUC 342 EDUC 389 EDUC 408 EDUC 415 EDUC 421 EDUC 423 EDUC 431 EDUC 441 EDUC 442 EDUC 451 EDUC 452 EDUC 453 EDUC 455 EDUC 456 EDUC 462 EDUC 481 EDUC 482 EDUC 495 EDUC 499

## **EDUC 242 Pre-student Teaching Clinical Experience I**

var-1sh

**Prerequisite:** Admission to teacher certification

Observation/participation in a basic education classroom beginning not later than the sophomore year. Transfer students (and other selected students at the recommendation of the teacher education coordinator of the program) may register later than sophomore year upon admission to teacher certification.

# **EDUC 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

## **EDUC 342 Pre-student Teaching Clinical Experience II**

var-1sh

**Prerequisites:** EDUC 242 and admission to junior standing

Students work toward the development of specific competencies that relate to individual major fields of teaching.

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#### **EDUC 389 Field Experience Intervention**

3c-01-3sh

**Prerequisites:** Permission of department and instructor; Elementary Education or Early Childhood Education major Designed to assist the student in achieving the competencies within the major necessary for performance in student teaching. Teaching skills will be developed through one-on-one tutoring and a field experience. Each student will work in collaboration with the instructor to develop a personal learning contract that provides a means for demonstrating those competencies identified by the instructor and student. Students are expected to show commitment to self-development and teaching. Course is only offered on a pass/fail basis.

#### **EDUC 408 Reading in the Content Areas**

3c-01-3sh

**Prerequisite:** ELED 222

Problems related to teaching students reading and study skills specifically needed in each of the subject areas at the

elementary level. Content teachers learn how to develop students' competence in these skills as part of their regular classroom instruction.

#### **EDUC 415 Computers in the School Curriculum**

3c-01-3sh

Prerequisite: <u>BEDU 101/COSC 101/IFMG 101</u> or permission of the instructor

Students will use a variety of computer software including word processing, record management programs, and simulation programs. Emphasis will be on the application of computer programs within the K-12 school curriculum.

#### **EDUC 421 Student Teaching**

var-6sh

**Prerequisite:** Admission to Student Teaching

An experience in teaching at the elementary level; coordination and visitation by a university faculty member with daily supervision by a cooperating classroom teacher.

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#### **EDUC 423 Professional Practicum, Including School Law**

var-3sh

A series of conferences and related activities to prepare students for actual teaching experiences. Parallels student teaching experience in junior and senior years. (Elementary Education majors only)

#### **EDUC 431 Student Teaching in Family and Consumer Sciences**

var-6sh

**Prerequisite:** Admission to Student Teaching

An experience in teaching family and consumer sciences at the secondary level.

# **EDUC 441 Student Teaching**

var-6-12sh

**Prerequisite:** Admission to Student Teaching

An experience in teaching at the elementary or secondary level; coordination and visitation by a university faculty member with daily supervision by a cooperating classroom teacher.

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#### **EDUC 442 School Law**

1c-01-1sh

Required of all teacher certification students. Includes overview of legal principles that apply to special areas of education. Must be taken prior to student teaching.

# **EDUC 451 Teaching Science in the Secondary School**

2c-2l-3sh

**Prerequisite:** Admission to Student Teaching

Background to help science majors meet the problems of teaching science. Various inquiry approaches useful in meeting objectives of a contemporary science class are taught and exemplified.

#### EDUC 452 Teaching of English and Communication in the Secondary School

3c-01-3sh

**Prerequisites:** ENGL 314, 323, and 380 and admission to Student Teaching

A prerequisite to student teaching in English. Introduces the student to current professional practices in the teaching of English and communications in high school.

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# EDUC 453 Teaching of Foreign Languages in the Elementary/Secondary Schools

3c-01-3sh

**Prerequisites:** Successful completion of 321-322 and 351-352 in the student's major language; passage of a language proficiency examination or permission of the instructor, and admission to Student Teaching

The student will study current theories of language acquisition and methods of language teaching for the elementary and secondary school. Through hands-on practice and peer teaching demonstrations, the student will develop techniques for teaching functional language, planning lessons, setting curricular objectives, testing language skills, and selecting/adapting materials for both elementary and secondary school classrooms. (Course taught fall semester only)

#### **EDUC 455 Teaching of Social Science in Secondary Schools**

3c-01-3sh

**Prerequisite:** Admission to Student Teaching

A study of modern methods and techniques for teaching social science and of current curricula in social science.

# **EDUC 456 Teaching Math in the Secondary Schools**

3c-01-3sh

**Prerequisite:** Admission to Student Teaching

A study of modern methods and techniques for teaching mathematics and current curricula.

## **EDUC 462 Issues and Innovations in Education**

3c-01-3sh

A study of issues and innovations which influenced education will be included. Educational innovations and issues which deal with curriculum, school organization, and materials of instruction will be examined.

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#### **EDUC 481 Special Topics**

3c-01-3sh

**Prerequisite:** By permission only

Provides an opportunity for students to investigate in-depth an area of education under professional supervision.

#### **EDUC 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

#### **EDUC 495 International Study Tour in Education**

var-3sh

A study of various peoples through their cultural settings and educational systems; on-site visitation to selected schools and other social agencies and institutions; seminars with school officials and directed readings.

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#### **EDUC 499 Multicultural/Multiethnic Education**

2c-01-2sh

**Prerequisite:** One methods course must be taken prior to, or concurrently with, EDUC 499

Provides students with an understanding and appreciation of cultural diversity in the United States. Students will gain

the ability to locate and develop curricular materials appropriate to this country's diversity.

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# Indiana University of Pennsylvania

2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# **Nuclear Medicine Technology**

# **De[artment of Nursing and Allied Health Professions College of Health and Human Services**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

#### NMDT 427 NMDT 428 NMDT 429 NMDT 430 NMDT 431 NMDT 432 NMDT 433 NMDT 434

#### NMDT 427 Nuclear Scintigraphy

3c-01-3sh

Theoretical aspects of nuclear medicine imaging procedures, including applicable pathophysiology, technical aspects for data acquisition, and computer analysis of data. Systemic radionuclide therapy procedures are also discussed.

# **NMDT 428 Radiation Physics**

3c-01-3sh

Applicable aspects of nuclear and atomic physics are covered both in theory and mathematical formulae. Theoretical topics include atomic and nuclear structure, radioactive decay, interactions with matter, and radionuclide production methods. Mathematical concepts discussed are the decay equation, equilibrium, and radiation dosimetry.

#### NMDT 429 Nuclear Medicine Instrumentation

2c-11-3sh

Covers the basic principles of both in vitro and in vivo instrumentation. The design, operation, and quality control of gas detectors and scintillation detectors are covered. Survey equipment, spectrometers, and stationary imaging devices are presented with their application to nuclear medicine. Hands-on laboratory experience with single channel analyzers and Anger cameras is included.

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#### NMDT 430 Radiation Biology and Radiation Protection

2c-01-2sh

Topics include ionization and energy transfer; molecules, cellular, tissue, and organ response to radiation; acute and chronic effects of radiation; radiation protection; licensing requirements; recordkeeping; and management of clinical radiation spills.

#### NMDT 431 In Vivo/In Vitro Non-Imaging

1c-01-1sh

In vivo clinical nuclear medicine procedures not resulting in images as well as principles of in vitro radioassay are presented. Included are venipuncture, blood volumes, red cell studies, Schillings test, principles of immunology, various types of radioassay, and sensitivity and specificity of procedure.

### **NMDT 432 Radiopharmaceuticals**

3c-01-3sh

Topics include tracer theory, pharmacological actions, localization methods, radiopharmaceutical properties, radionuclide generators, radiopharmaceutical preparations and quality control, and transient vs. secular equilibrium. Routinely used radiopharmaceuticals are discussed.

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## NMDT 433 Introduction to Tomographic Imaging

1c-0l-1sh

An introduction to the basic principles of cross-sectional anatomy and tomographic imaging is presented. Topics include body planes and cross-sectional anatomy of the heart, brain, liver, and lumbar spine, as applicable to nuclear medicine, and the theory and application of both SPECT and PET imaging systems.

#### **NMDT 434 Clinical Nuclear Medicine**

0c-40l-16sh

**Prerequisite:** Completion of 77sh at IUP and Phase I and NMI

Students complete 1,320 hours of supervised clinical training at an affiliate hospital. Students receive instruction and participate in the performance of various clinical nuclear medicine procedures, patient care, administrative duties, radiopharmaceutical preparation and quality control, equipment quality control, quality assurance, and radiation safety. Students develop both their technical skills and interpersonal communication skills for incorporation into the medical community and to provide high-quality patient care. Only offered on a pass/fail basis.

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# Indiana University of Pennsylvania

2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# **English**

# Department of English College of Humanities and Social Sciences

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

ENGL 100 ENGL 101 ENGL 121 ENGL 122 ENGL 150 ENGL 202 ENGL 208 ENGL 210 ENGL 211 ENGL 212 ENGL 213 ENGL 214 ENGL 215 ENGL 216 ENGL 217 ENGL 220 ENGL 221 ENGL 225 ENGL 281 ENGL 301 ENGL 302 ENGL 303 ENGL 304 ENGL 305 ENGL 306 ENGL 307 ENGL 310 ENGL 311 ENGL 312 ENGL 313 ENGL 314 ENGL 315 ENGL 316 ENGL 317 ENGL 318 ENGL 319 ENGL 320 ENGL 322 ENGL 323 ENGL 324 ENGL 325 ENGL 326 ENGL 329 ENGL 330 ENGL 332 ENGL 333 ENGL 334 ENGL 335 ENGL 336 ENGL 337 ENGL 338 ENGL 344 ENGL 348 ENGL 349 ENGL 354 ENGL 356 ENGL 357 ENGL 385 ENGL 386 ENGL 387 ENGL 390 ENGL 391 ENGL 393 ENGL 394 ENGL 395 ENGL 396 ENGL 401 ENGL 420 ENGL 422 ENGL 430 ENGL 432 ENGL 434 ENGL 436 ENGL 436 ENGL 461 ENGL 462 ENGL 480 ENGL 481 ENGL 482 ENGL 493

#### **ENGL 100 Basic Writing**

3c-0l-3sh

Designed to develop the basic English skills necessary for clear and effective communication. Reserved for selected students. Does not meet General Education English or Liberal Studies writing requirements.

#### **ENGL 101 College Writing**

3c-var-4sh

**Prerequisite:** ENGL 100, where required by placement testing

Normally to be taken the first semester at IUP. Courses use readings in the nature and history of language, semantic and linguistic analysis, and problems in rhetoric and other approaches to composition. Seven theme-length expository papers (or the equivalent) are written, in addition to shorter exercises and a written final examination.

#### **ENGL 121 Humanities Literature**

3c-01-3sh

**Prerequisite:** ENGL 101

Introduces students to literature of various genres through a careful analysis of poetry, fiction, and drama. Includes literature of various time periods, nationalities, and minorities.

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#### **ENGL 122 Introduction to Literary Analysis**

3c-01-3sh

**Prerequisite:** ENGL 101

Acquaints students with the literary genres (especially fiction, poetry, and drama) by means of examples of each and provides them with some of the various critical approaches to the interpretation of literature so that they may gain the ability to apply them. At the conclusion of the course, students are expected to be able to read literature perceptively and to write critical papers about it. (Offered as EN210 prior to Spring, 1998)

# **ENGL 150 English for Foreign Students**

3c-01-3sh

Provides international students with an opportunity to improve their ability to speak and write English before they take <u>ENGL 100</u> and <u>ENGL 101</u>. The emphasis is on individualized exercises and assignments. This course carries graduation credit but does not meet Liberal Studies English requirements.

# **ENGL 202 Research Writing**

3c-01-3sh

**Prerequisites:** ENGL 101, sophomore standing

Teaches students to read, analyze, and evaluate nonfiction sources and to present the results of their analysis in clear, organized, carefully documented research papers. The focus of reading and research in each section will be determined by the instructor.

### ENGL 208 The Art of the Film

3c-01-3sh

Concentrates on the film as an artistic medium. Eight to twelve motion pictures are shown during semester and are analyzed in class discussions.

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### **ENGL 210 British Literature to 1660**

3c-0l-3sh

**Prerequisites:** ENGL 101, 122, or permission

Surveys British literature from its beginnings to about 1660, acquainting students with the experience of reading many of the primary materials (whole works whenever possible or full, free-standing parts) and provides them with background information concerning the development and flowering of the various genres, the dominant ideas of each period, and the social and cultural context of the separate works. (Offered as EN211 prior to Spring, 1998)

### ENGL 211 British Literature 1660-1900

3c-01-3sh

**Prerequisites:** ENGL 101, 122, or permission

Surveys British literature from about 1660 to the beginning of the twentieth century, acquainting students with the experience of reading many of the primary materials (whole works whenever possible or full, free-standing parts) and providing them with background information concerning the development and flowering of the various genres, the dominant ideas of each period, and the social and cultural context of the separate work. (Offered as EN212: English Literature prior to Spring, 1998)

### **ENGL 212 American Literature: Beginnings to 1900**

3c-01-3sh

**Prerequisites:** ENGL 101, 122, or permission

Provides an understanding of American literature from its beginning to about 1900. The course will concentrate primarily upon a relatively small number of major works, each of which will help to illustrate the "spirit of the age" it represents. (Offered as EN213: American Literature: Beginnings to the Present prior to Spring, 1998)

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### **ENGL 213 British and American Literature Since 1900**

3c-01-3sh

**Prerequisites:** ENGL 101, 122, or permission

A survey of major authors and works in British and American literature since 1900. Begins with the shift from Victorianism and late nineteenth-century literature into modernism, as exemplified by writers such as Woolf, Hemingway, and O'Neill, and continues with postmodernism and contemporary literature.

### **ENGL 214 The Novel**

3c-01-3sh

**Prerequisites:** ENGL 101, 122, or permission

Surveys the development of the novel from Cervantes' Don Quixote to the present with emphasis on major writers and

forms in English. Includes consideration of teaching the novel.

# **ENGL 215 Poetry**

3c-01-3sh

Prerequisites: ENGL 101, 122, or permission

A study in appreciation of poetry, with special attention to the technique of the poet and structure of poetry. Includes consideration of teaching poetry.

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### **ENGL 216 Short Fiction**

3c-01-3sh

**Prerequisites:** ENGL 101, 122, or permission

A study of the development of the short story from the middle of the nineteenth century to the present with attention to form, structure, and types of the story. Includes consideration of teaching short fiction.

### **ENGL 217 Drama**

3c-01-3sh

**Prerequisites:** ENGL 101, 122, or permission

The study of selected plays from various periods in an attempt to understand the function of drama. Includes consideration of teaching drama.

# **ENGL 220 Advanced Composition I**

3c-01-3sh

**Prerequisite:** ENGL 202

Primarily seeks to improve writing style, particularly in the more utilitarian forms, such as magazine article and personal essay.

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# **ENGL 221 Creative Writing**

3c-01-3sh

**Prerequisite:** ENGL 202

A seminar course in which students are expected to produce a substantial body of written work in one or more of the creative genres, the particular kind of writing chosen with regard to the special interests and abilities of each student.

### **ENGL 225 Introduction to Literature by Women**

3c-01-3sh

**Prerequisites:** ENGL 121 or 122 and ENGL 202

Major trends and motifs across genres (fiction, nonfiction, poetry, autobiography) which reflect themes and subjects of continuing interest to women writers. The intersection of genre with race, ethnicity, and social class will be of particular significance. (Offered as EN384 prior to Spring, 1998)

### **ENGL 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

# **ENGL 301 British Medieval Literature**

3c-01-3sh

Prerequisites: ENGL 202, 210, 211, 212, 213

Examines particular literary traditions in England from the eleventh to the fifteenth centuries, excluding Chaucer. The

purpose will be to acquaint students with the diversity of materials, ranging from prose to verse, oral to written, and serious to comic. Most texts will be taught in the original Middle English, accompanied by side glosses. Translations will be used where appropriate. Rather than survey the period comprehensively, the purpose here is to focus closely on particular aspects or writers as selected by the instructor.

# **ENGL 302 Renaissance Literature**

3c-01-3sh

Prerequisites: ENGL 202, 210, 211, 212, 213

Examines major works and genres in Elizabethan literature such as pastoral and tragedy and key fiction writers, dramatists, and poets during 1558-1603. Rather than survey the period comprehensively, the purpose here is to focus closely on a specific literary period and on the writers of this period as selected by the instructor. (Offered as EN361: The Renaissance prior to Spring, 1998)

# **ENGL 303 British Enlightenment Literature**

3c-01-3sh

Prerequisites: ENGL 202, 210, 211, 212, 213

British Enlightenment Literature refers to the imitation of the Greek and Roman authors of antiquity. Begins with the assumptions and goals of neoclassical literature and integrates the intellectual debates and contemporary politics (patriarchy, nascent capitalism, empire, slavery, class divisions) that flourished alongside of (and that shaped the emergence of) new genres (the slave narrative, the novel, gothic tales, the periodical essay). Rather than survey the period comprehensively, the purpose here is to focus closely on particular aspects or writers as selected by the instructor.

### **ENGL 304 British Romantic Literature**

3c-01-3sh

Prerequisites: ENGL 202, 210, 211, 212, 213

Emphasizes the relationship between literature and its milieu. Focuses primarily on English Romantic Poets but considers development in Germany, France, and America and examines its continuing manifestations in literature, culture, and politics. Rather than survey the period comprehensively, the purpose here is to focus closely on a specific literary period and on the writers of this period as selected by the instructor. (Offered as EN360: Romanticism prior to Spring, 1998)

### **ENGL 305 British Victorian Literature**

3c-01-3sh

**Prerequisites:** ENGL 202, 210, 211, 212, 213

Examines literary works against a background of rapidly changing social, economic, religious, and political forces. Counterculture movements, such as the Pre-Raphaelites, will be examined against "high Victorianism" to develop a sense of the tremendous intellectual and political energy of the period. Roots of recent concerns such as feminism, political literalism, and capitalism will be explored to help us better understand our own as well as the Victorian age. Rather than survey the period comprehensively, the purpose here is to focus closely on particular aspects or writers as selected by the instructor.

### **ENGL 306 Modern British Literature**

3c-01-3sh

Prerequisites: ENGL 202, 210, 211, 212, 213

Examines major works and trends in modern British literature, such as modernism or key fiction writers, dramatists, or poets during the first half of the twentieth century. Rather than survey the period comprehensively, the purpose here is to focus closely on particular aspects or writers as selected by the instructor.

# **ENGL 307 Contemporary British Literature**

3c-01-3sh

Prerequisites: <u>ENGL 202, 210, 211, 212, 213</u>

Examines major works and trends in contemporary British literature, such as late modernism, postmodernism, the age of diminishment, or key novelists, dramatists, and/or poets from the period 1945 to the present. Rather than survey the

period comprehensively, the purpose here is to focus closely on particular aspects or writers as selected by the instructor.

### **ENGL 310 Public Speaking**

3c-01-3sh

**Prerequisite:** ENGL 101

Fundamental principles of public speaking, audience analysis, interest and attention, and selection and organization of speech material.

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### **ENGL 311 Oral Interpretation**

3c-01-3sh

**Prerequisite:** ENGL 101

Emphasizes understanding and appreciation of literature through developing skill in reading aloud.

### **ENGL 312 Speech--Persuasion**

3c-01-3sh

Prerequisites: ENGL 202, 310

Advanced study of problems involved in influencing an audience.

### **ENGL 313 The Rhetorical Tradition**

3c-01-3sh

Prerequisites: ENGL 101, 310

Survey of rhetorical theory from Greek and Roman through modern times.

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# ENGL 314 Speech and Communication in the Secondary English Classroom

3c-01-3sh

Prerequisites: ENGL 122, 202

Offers students practical and theoretical approaches to relationships between oral and written communication. The course is performance based (involving a variety of communication activities) and knowledge based (involving study of research on language arts relationships). Emphasis is given to integration of the four language arts for improving teachers' own communication skills as well as those of their students.

### **ENGL 315 American Literature to 1820**

3c-01-3sh

**Prerequisites:** ENGL 202, 210, 211, 212, 213

The beginnings of American literary cultures from sixteenth-century pre-Columbian indigenous contacts with European explorations, through diverse colonializations (Hispanic, French, and British) including the importation of African slaves, up to the American Revolution and emergent U.S. literary nationalism in the first decades of the nineteenth century. Rather than survey the period comprehensively, the purpose here is to focus closely on particular aspects or writers as selected by the instructor.

# **ENGL 316 American Literature 1820-1880**

3c-01-3sh

**Prerequisites:** ENGL 202, 210, 211, 212, 213

Examines major works and trends in U.S. literature, from the Federalist, Romantic, and/or Realistic periods. Rather than survey the period comprehensively, the purpose here is to focus closely on particular aspects or writers as selected by the instructor.

### ENGL 317 American Literature 1880-1940

3c-01-3sh

Prerequisites: ENGL 202, 210, 211, 212, 213

Examines representative U.S. writers during 1880-1940. Includes traditional figures as well as writers who have recently entered the canon. Rather than survey the period comprehensively, the purpose here is to focus closely on particular aspects or writers as selected by the instructor.

### **ENGL 318 Literature for Adolescents**

3c-01-3sh

**Prerequisites:** ENGL 101, 122, or permission, English Education major

Surveys poetry, drama, and fiction with which the adolescent is familiar through school work and personal reading.

### **ENGL 319 American Literature 1940-present**

3c-01-3sh

Prerequisites: ENGL 202, and at least two courses from 210, 211, 212, 213

Additional prerequisites for B.A. English majors: 210, 211, 212, 213

Focuses on various movements, themes, genres, and authors writing in the United States since 1940. Not a survey course; each section will develop an extended treatment of a particular topic selected by the instructor. Emphasizes writing by living writers to develop an understanding of the diversity, formally and thematically, of current U.S. literary production across genders and ethnicities.

### **ENGL 320 Advanced Composition II**

3c-01-3sh

Prerequisites: ENGL 202, 220

A workshop and tutorial atmosphere for students who intend to write or teach writing.

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# **ENGL 322 Technical Writing I**

3c-01-3sh

**Prerequisite:** ENGL 202

Focuses on helping the student to acquire and to apply communication skills essential to the technical and professional writer.

### **ENGL 323 Teaching Literature and Reading in the Secondary School**

3c-01-3sh

Prerequisites: ENGL 122, 202

Introduces students to the theory and research on teaching literature and reading in the secondary school. Reviews reader-response literary theory and classroom-based research on teaching literature. Also reviews socio-psycholinguistic reading theory and classroom-based research on teaching reading.

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# **ENGL 324 Teaching and Evaluating Writing**

3c-01-3sh

**Prerequisites:** ENGL 122, 202, English Education major or permission

A study of modern approaches to the teaching of writing, including current theories on the composing process, as well as instruction in evaluating, including holistic scoring. Includes practice in writing.

# **ENGL 325 Creative Writing: Poetry**

3c-01-3sh

**Prerequisites:** ENGL 221, permission of instructor based on samples of student's work

A writing workshop for students who wish to focus intensively on the writing and revision of poetry and on developing an audience for one's works.

# **ENGL 326 Creative Writing: Fiction**

3c-01-3sh

**Prerequisites:** ENGL 221, permission of instructor based on samples of student's work

A writing workshop for students who wish to write fiction under the guidance of an instructor. Focuses intensively on the writing and revision of prose fiction and on developing an audience for one's works.

# **ENGL 329 The History of the English Language**

1c-0l-1sh

Prerequisite: **ENGL 202** 

Studies historical development of the English language, as a basis for a better understanding of modern American English.

# **ENGL 330 The Structure of English**

3c-01-3sh

**Prerequisite:** ENGL 202

An introduction to the fundamentals of language study with equal emphasis on the sound, word, sentence, meaning, and discourse patterns of English. Educationally relevant topics, such as applications of linguistics to the teaching of English language and literature, varieties of grammar, and linguistic descriptions of styles and registers are an integral part of the course. Course is a prerequisite for <u>EDUC 452</u>: Teaching of English in the Secondary School.

### **ENGL 332 Advanced Film**

3c-01-3sh

Prerequisites: ENGL 101, 208

Offers a close examination of classic and contemporary films and film theory from a variety of critical perspectives: spectatorship, cinematic authorship, feminism, historiography, genre, and cultural studies. Pays special attention to the treatment of women and African-Americans in film.

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# **ENGL 333 Psycholinguistics**

3c-0l-3sh

**Prerequisite:** ENGL 202

Concerns the interrelation between language system and behavior and various factors of human psychology. Surveys developments since the 1940s, including relationships between language and perception, biology, memory, meaning, and cognition, as well as oral and written behavior. Students of language and literature may improve their assumptions about how human beings use language.

### **ENGL 334 ESL Methods and Materials**

3c-01-3sh

Prerequisite: Junior standing or permission of the instructor

Prerequisite: Junior standing or permission of the instructor An introduction to English as a Second Language theory and practice. Aims: (1) general understanding of current theory and methods of teaching ESL; (2) ability to select appropriate, and adapt existing, materials for elementary and high school ESL students. Recommended for all English teachers who expect to have ESL students in their classes.

### **ENGL 335 The Essay**

3c-0l-3sh

**Prerequisites:** ENGL 202, 210, 211, 212, 213

Focuses on the creation and development of the essay in English, its form and content, from its beginnings to the present. Students will begin by studying Francis Bacon, the first English essayist, and follow the evolution of the form to the present day.

# ENGL 336 Language, Gender, and Society

3c-01-3sh

Prerequisites: **ENGL 202**, junior standing

Investigates the various ways that language and gender interact and intersect in society. Examines such questions as: Does society use language to favor one sex over the other? Why is language a crucial component in formulating

constructs of masculinity and femininity? What stereotypes of gender-based language are promoted in our society? How can we analyze language to reveal disparate views and treatment of the sexes?

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### ENGL 337 Myth

3c-01-3sh

Prerequisites: ENGL 202, and at least two courses from 210, 211, 212, 213

Additional prerequisites for B.A. English majors: 210, 211, 212, 213

Examines the nature and function of the mythic experience and explores the archetypal patterns of myths from various cultures. (Offered as EN370: Myth and Literature prior to Spring, 1998)

### **ENGL 338 Oral Literature**

3c-01-3sh

Prerequisites: <u>ENGL 202</u>, <u>210</u>, <u>211</u>, <u>212</u>, <u>213</u>

Acquaints students with the nature of oral composition, the habits of thought that orality fosters, and the particular mode of awareness the oral dimension of literature demands of an audience (and awakens in a reader). At the conclusion of the course students should have an understanding of the formulaic nature of such purely oral forms as the ballad and the epic and an awareness of the manner in which orality patterns thought differently from writing, and they should be able to detect oral features and patterns in works of literature from cultures not primarily oral but containing a high "oral residue." (Offered as EN353: The Oral Dimension prior to Spring, 1998)

### **ENGL 344 Ethnic American Literature**

3c-01-3sh

Prerequisites: ENGL 202, and at least two courses from 210, 211, 212, 213

Additional prerequisites for B.A. English majors: 210, 211, 212, 213

Concerned with ethnic U.S. experiences as expressed in poetry, fiction, drama, and autobiography. The topic will vary and be announced in advance. Examples include Asian-American, Hispanic, Irish-American, Jewish-American, and Native-American literatures.

### **ENGL 348 African-American Literature**

3c-01-3sh

**Prerequisites:** ENGL 121 or 122 and 202

Primarily nineteenth- and twentieth-century African-American literature (poetry, fiction, nonfiction): includes works by Frederick Douglass, W.E.B. Du Bois, spirituals and folk poetry, Harriet B. Wilson, Jean Toomer, Richard Wright, Audrey Lorde, and Toni Morrison. Emphasis will be on historical context and an Afrocentric approach.

# **ENGL 349 English Bible as Literature**

3c-01-3sh

**Prerequisites:** ENGL 121 or 122 and 202

Considers literary aspects of the English Bible by relating earlier translations to the Authorized Version of 1611 and by tracing some of the major influences of the King James Bible upon writers and speakers of modern English. Offers a close reading of the major narrative and poetic portions of the Old Testament.

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#### **ENGL 354 Classical Literature in Translation**

3c-01-3sh

Prerequisites: ENGL 122, 202

Masterpieces studied range from those of ancient Greece to Middle Ages. English literature and American literature excluded. (Offered as EN345 prior to Spring, 1998)

# **ENGL 356 Film Theory**

3c-01-3sh

Prerequisites: ENGL 101, 208

An introduction to major film theories, studied in relation to representative films. Details the complex relationship between film production and film theory: i.e., how theorists have attempted to explain what appears on the screen, its impact, and its relation to "reality," and how filmmakers have responded to the works of theorists (with the two sometimes being the same). Goes far deeper into understanding film than ENGL 208, which focuses mainly on how film is constructed through aesthetic and institutional processes.

### **ENGL 357 Major Figures in Film**

3c-0l-3sh

Prerequisites: ENGL 101, 208

Studies major artists and their contributions to the development of film as an art form from its beginnings to the present. Close analyses of directors, cinematographers, editors, screenwriters, or actors—as individuals or as representatives of a movement in film. Topics will vary from semester to semester; thus, one semester may concentrate on a specific director such as Alfred Hitchcock; another semester might study women (as directors, actresses, and editors); and yet another semester might study a collective movement such as film noir.

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### **ENGL 385 Advanced Women's Literature**

3c-01-3sh

**Prerequisites**: ENGL 202 and for non-majors ENGL 225

Considers issues of genre and canon revision and why particular genres may have particular appeal for women writers. While many of our readings will be by "literary women," we will also consider works by women who were professionals in nonliterary disciplines.

### **ENGL 386 Regional Literature in English**

3c-01-3sh

**Prerequisites:** ENGL 202, and at least two courses from 210, 211, 212, 213

Additional prerequisites for B.A. English majors: 210, 211, 212, 213

Examines the contributions of a particular region to national literature. The focus of the course might be any of the following: Appalachian writers, local color writers, New England writers, Southern writers, writers of the American West, or Canadian writers.

### **ENGL 387 Irish Literature**

3c-01-3sh

Prerequisites: ENGL 202, 210, 211, 212, 213

An introduction to Irish literature since 1800, with particular emphasis on the Literary Revival in the early twentieth century. Key authors include Yeats, Joyce, Synge, O'Casey, Edgeworth, Somerville and Ross, Gregory, Beckett, and Heaney. The development of Irish writing will be examined within the contexts of Irish history, language, culture, and politics.

# **ENGL 390 Literary Tour: Britain**

3c-01-3sh

ENGL 390 Literary Tour: Britain var-3sh Offered selected summers, for five weeks during the first or second summer session. Visits London, Stratford, and Cambridge or Oxford, as well as other places important in English literature.

### ENGL 391 Selected Works from the Medieval Period

3c-01-3sh

Prerequisites: ENGL/FL121 or ENGL 122, ENGL 202

Comparative study of selected works of major importance per se and as representative of major themes of medieval European literature. Also listed as <u>FNLG 391</u>.

### **ENGL 393 Romanticism**

3c-01-3sh

Prerequisites: ENGL/FL121 or ENGL 122, ENGL 202

Study of the principal authors and works of late eighteenth-century and early nineteenth-century Europe and the unique national characteristics of the Romantic movement in lyric, drama, and prose. Also listed as <u>FNLG 393</u>.

# **ENGL 394 Nineteenth-Century European Novel in Translation**

3c-01-3sh

Prerequisites: ENGL/FL121 or ENGL 122, ENGL 202

A survey of major nineteenth-century European novels in translation (excluding English), emphasizing the rise of realism and naturalism and the cultural, historical, social, and artistic relationships between the various national literatures. Also listed as FNLG 394.

# **ENGL 395 Selected Writers from Twentieth-Century Europe**

3c-01-3sh

Prerequisites: ENGL/FL121 or ENGL 122, ENGL 202

Comparative study of selected works of major importance per se or as representatives of major trends in twentieth-

century literature. Also listed as <u>FNLG 395</u>.

# **ENGL 396 The Literature of Emerging Nations**

3c-01-3sh

Prerequisites: ENGL/FL121 or ENGL 122, ENGL 202

A comparative study of a selection of literature written in major European languages but originating in the nations of the developing world. Works will be mainly prose fiction (although essay, theater, and poetry may be included) and reflect a diversity of geographical, cultural, and prior colonial circumstances. Also listed as FNLG 396.

# **ENGL 401 Advanced Literary Theory and Criticism**

3c-01-3sh

**Prerequisites:** ENGL 202, 210, 211, 212, 213

Acquaints students with major issues and problems in literary theory. Rather than survey the history of criticism and theory, this course focuses on modern and contemporary critical schools and methods. The purpose is to introduce students to a select group of influential theories and theorists and how such theories impact the way we read, study, and teach literature and cultural studies.

# **ENGL 420 Special Writing Applications**

3c-01-3sh

**Prerequisite:** ENGL 220

Offers students who are well into their disciplines "forums" for advanced reading and writing about the cultural, professional, and personal uses of textual knowledge. Students will read, analyze, and compose essays that build meaning around disciplinary knowledge, independent reading, and personal or preprofessional experience. They will be encouraged to make connections between disciplinary knowledge and emerging knowledge or experience.

# **ENGL 422 Technical Writing II**

3c-01-3sh

**Prerequisite:** ENGL 322

An advanced workshop/tutorial that provides intensive instruction in technical writing. Technical Writing II builds on the basics of audience, readability, proposals and reports, letters, memos, and resumes which are covered in Technical Writing I. Describes the writer's role in such areas as legal and ethical aspects of technical communication; planning, testing, reviewing, and evaluating documents; and proofreading and editing.

### **ENGL 430 Major British Author**

3c-01-3sh

**Prerequisites:** ENGL 202, 210, 211, 212, 213

Examines major works of a single major author, including biographical, literary, and cultural contexts. Places the author within both intellectual/cultural history and literary developments. Major author studied in a particular semester to be announced in advance.

#### **ENGL 432 Chaucer**

3c-01-3sh

Prerequisites: <u>ENGL 202</u>, <u>210</u>, <u>211</u>, <u>212</u>, <u>213</u>

Studies Chaucer, his life, his language, the development of his literary style, and his art, with and through his major poetical works. (Offered as EN340 prior to Spring, 1998)

# **ENGL 434 Shakespeare**

3c-01-3sh

Prerequisites: ENGL 202, and at least two courses from 210, 211, 212, 213

Additional prerequisites for B.A. English majors: 210, 211, 212, 213

Studies Shakespeare's development as a poetic dramatist against background of Elizabethan stage; examines audience, textual problems, language imagery, and philosophy. (Offered as EN341 prior to Spring, 1998)

### **ENGL 436 Major American Authors**

3c-01-3sh

Prerequisites: ENGL 202, 210, 211, 212, 213

Studies in the literary output of a major American author or authors against the background of the social and literary milieus in which the works were created. Specific subject or subjects to be announced by the instructor. (Offered as EN343 prior to Spring, 1998)

# **ENGL 460 Topics in Film**

3c-01-3sh

Prerequisites: ENGL 101, 208

Selected films dealing with a specific, advanced topic will be viewed and assessed to explore the different roles that film plays. Topic to be announced in advance

# **ENGL 461 Topics in British Literature**

3c-01-3sh

**Prerequisites:** ENGL 202, 210, 211, 212, 213

Examines major works of a particular topic in British literature by focusing on its cultural and literary contexts. Topic to be announced in advance.

# **ENGL 462 Topics in American Literature**

3c-01-3sh

Prerequisites: <u>ENGL 202, 210, 211, 212, 213</u>

Examines major works of a particular topic in American literature by focusing on its cultural and literary contexts.

Topic to be announced in advance.

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# ENGL 480 Seminar: Studies in English and American Literature

var-3sh

Prerequisites: ENGL 101, 122, 202

Corequisites: ENGL 211, 212, 213, or permission

A seminar experience designed for advanced students. Students considering graduate work in English might well wish to enroll, but students with a variety of career goals—business, industry, law, government service—can take advantage of this opportunity to plan a schedule of independent study with the help of a faculty mentor.

### **ENGL 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Vary from semester to semester covering such diverse topics as autobiography, science fiction, folklore, the political novel, black theater, etc.

# **ENGL 482 Independent Study**

var-1-6sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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# **EN 493 Internship**

var-3-12sh

On-the-job training opportunities in related areas. Application and acceptance to internship program required.

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# Indiana University of Pennsylvania

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# **History**

# **Department of History College of Humanities and Social Sciences**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

HIST 195 HIST 200 HIST 201 HIST 202 HIST 203 HIST 210 HIST 212 HIST 214 HIST 281 HIST 301 HIST 302 HIST 303 HIST 304 HIST 305 HIST 306 HIST 307 HIST 308 HIST 311 HIST 320 HIST 321 HIST 322 HIST 324 HIST 325 HIST 326 HIST 327 HIST 330 HIST 331 HIST 335 HIST 340 HIST 341 HIST 342 HIST 343 HIST 344 HIST 345 HIST 346 HIST 350 HIST 351 HIST 355 HIST 356 HIST 360 HIST 361 HIST 362 HIST 363 HIST 364 HIST 365 HIST 366 HIST 367 HIST 369 HIST 370 HIST 372 HIST 373 HIST 374 HIST 390 HIST 391 HIST 480 HIST 481 HIST 482 HIST 483 HIST 487 HIST 493

### **HIST 195 The Modern Era**

3c-01-3sh

Interprets the development of two centers of civilization, Europe and America, within a global context and extends from at least the Age of Enlightenment through the present. (History majors should substitute HIST 202 for HIST 195 to meet the Liberal Studies humanities requirements.)

### **HIST 200 Introduction to History**

3c-01-3sh

For History majors and concentrates. Topics include philosophy of history, important schools of history and historians, and methods of historical research. Student is encouraged to become a better historian and to identify with historical profession. For History majors only.

### **HIST 201 Western Civilization Before 1600**

3c-01-3sh

A survey course presenting in various forms the origin and development of major political, social, religious, and intellectual institutions in Western Civilization to approximately 1600. For History majors or by instructor's permission.

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### **HIST 202 Western Civilization Since 1600**

3c-01-3sh

Development of Western civilization from the expansion of Europe to the present, including political, diplomatic, economic, social, and cultural areas. Introduces issues and interpretations encountered in upper-level courses. For History majors or by instructor's permission.

### **HIST 203 United States History for Historians**

3c-01-3sh

Introduces aspiring historians to United States history since 1763. Emphasizes the issues, methods, and problems that currently concern professional historians. For History majors or by instructor's permission.

### HIST 210 Ancient Civilization: The Middle East and the Eastern Mediterranean

3c-01-3sh

**Note:** Not open to History and Secondary Social Science Education majors.

An examination of the development and the spread of ancient civilization in ancient Middle East and the Eastern Mediterranean. Topics of study will include the characteristics of civilization and the development of political, social, economic, and cultural institutions in the river valley centers and the diffusion to the fringe areas.

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### **HIST 212 Ancient and Medieval Europe**

3c-01-3sh

**Note:** Not open to History and Secondary Social Science Education majors.

An examination of the development of civilization in Europe during the ancient and medieval periods. Focuses on the Ancient Greek and Roman civilizations and the medieval European civilization. The characteristics and institutions of civilization will be stressed as well as the political history.

# **HIST 214 Themes in American History**

3c-01-3sh

**Prerequisite:** HIST 195

Open only to non-History majors. Designed to give students an appreciation of the basic themes and issues in the making of American society. Students will examine themes such as the fruition of democracy, the American dream, slavery and freedom, the tensions between liberty and order, and the role of the United States in a world setting.

# **HIST 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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# **HIST 301 History of Ancient Greece**

3c-01-3sh

Analyzes major political, social, and economic developments in ancient Greek civilization from Bronze Age to death of Alexander.

# **HIST 302 History of Ancient Rome**

3c-01-3sh

Traces Roman history from early Republic down to fall of Empire. Roman political theory will be particularly emphasized.

### HIST 303 Medieval Europe I, 400-1000

3c-01-3sh

History of early Medieval Europe, from decline of Rome to beginnings of High Middle Ages; emphasis on political, social, economic, religious, and intellectual developments.

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# HIST 304 Medieval Europe II, 1000-1300

3c-01-3sh

History of late Medieval Europe, from High Middle Ages to Renaissance period; emphasis on political, social, economic, religious, and intellectual developments.

### **HIST 305 Renaissance and Reformation**

3c-01-3sh

History of Europe from c. 1250; rise of commercial city, kings, and pressures on Christian Church to 1600. Some consideration of technology and voyages.

# **HIST 306 Early Modern Europe**

3c-01-3sh

Greatness of France under Louis XIV; Sweden; Thirty Years' War. Emergence of modern society; French Revolution.

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# HIST 307 History of Europe: 1815-1914

3c-01-3sh

The study of Europe in nineteenth century, with emphasis on the emergence of major thought patterns, Romanticism, Nationalism, Socialism, and Positivism.

# **HIST 308 Twentieth-Century Europe**

3c-01-3sh

Political, economic, and diplomatic trends in Europe since 1900, with major emphasis on causes and results of war and search for security.

# **HIST 311 Rise and Fall of Hitler's Empire**

3c-01-3sh

In-depth study of Hitler and the Nazi order; offers an analysis of nineteenth-century origins of Nazi ideology and intensively analyzes domestic and foreign totalitarian policy (1920-1945), including Holocaust, Resistance, and the postwar Nuremberg Trials.

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### **HIST 320 History of England to 1688**

3c-01-3sh

A survey of the growth of the English nation, with emphasis on political, social, and economic developments leading to seventeenth-century conflict between Crown and Parliament.

### HIST 321 History of England, 1688 to Present

3c-01-3sh

A survey of the growth of England as a democratic constitutional monarchy. Attention directed to industrial revolution and to imperial expansion and England's role in twentieth-century world. Attention given to social and cultural history.

### **HIST 322 French Revolution and Napoleon**

3c-01-3sh

Brief sketch of Old Regime, concentration on Revolution and Empire, with emphasis on politics, social structure, diplomacy, and economics.

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### **HIST 324 History of Germany to 1848**

3c-01-3sh

The study of the development of Germany politically and culturally from ancient times, emphasizing medieval and early modern periods to 1849.

### HIST 325 History of Germany: 1849 to the Present

3c-01-3sh

The study of the political and cultural development of modern Germany from the Revolution of 1848, including imperial, republican, and totalitarian phases, to post-World War II East and West Germany.

# **HIST 326 History of Russia**

3c-01-3sh

General survey of Russian history, culture, and institutions. Special consideration given to study of historical forces formative of Revolution of 1917.

# Back to Top

### **HIST 327 Soviet Union and Contemporary Russia**

3c-01-3sh

**Prerequisites:** Sophomore standing, completion of <u>HIST 195</u> (nonmajors)

Analyzes the period from 1855 to the present, including the attempts at modernization by Imperial Russia, the creation of the Soviet Union and further modernization, and the collapse of the Soviet Union.

# **HIST 330 History of the Islamic Civilization**

3c-01-3sh

An approach to learning about a non-Western culture: Muhammad, Arabs, and Muslims as creators of a great civilization from rise of Islam to 1800; emphasis on cultural institutions of Islam and their interrelationships within Middle East.

### **HIST 331 Modern Middle East**

3c-01-3sh

A survey of changes that have taken place in Middle East and in Islam since eighteenth century and of contemporary problems in that region.

# **HIST 335 History of East Asia**

3c-01-3sh

History of China and Japan from ancient times, Buddhism, medieval Japan, Chinese communism, industrialization. Some consideration of peripheral Asia from 1500.

# Back to Top

# **HIST 340 Colonial America**

3c-0l-3sh

A survey of original thirteen states from their inception as colonies within the British empire to 1763, the eve of Independence. Attention is given to their political development; economic position within the empire; relations with Indians; and evolution of social, educational, and religious life.

# **HIST 341 American Revolution**

3c-01-3sh

An examination of Whig-Tory participants of American Revolution. Examines events from 1763 to 1783. Changing interpretations of the causes and effects of the revolution will be discussed.

### **HIST 342 The Early Republic**

3c-01-3sh

A survey of United States history from 1783 to 1850, with special attention on constitutional, political, economic, and social trends.

# Back to Top

# **HIST 343 Civil War and Reconstruction**

3c-01-3sh

The study of the failure of American democracy to cope with issues of mid-nineteenth century, followed by political, economic, military, and social developments during war and reconciliation of North and South.

# HIST 344 The Age of Big Business in America, 1877-1917

3c-01-3sh

Examines how big business developed in America, how the economic change reshaped society, and how the reshaped society responded politically.

### HIST 345 The Age of Ragtime: American History, 1900-1929

3c-01-3sh

Using the nation's cultural development as its thematic foundation, analyzes the transitional character of the Progressive Era, World War I, and the 1920s.

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### **HIST 346 Recent United States History**

3c-01-3sh

A study of political, economic, and cultural changes in American life since 1929; examines roots of social problems facing us today. Some recent foreign policy trends also studied.

### HIST 350 History of Latin America Colonial Period, 1450-1820

3c-01-3sh

A study of life of people, Indian cultures, conquest by Spaniards and Portuguese, government during Colonial Period, and Wars of Independence.

### HIST 351 History of Latin America: National Period, 1820-Present

3c-01-3sh

A study of the history of nations which have emerged since independence; emphasis on economic, political, cultural, and social developments of these nations, as well as relationships of these nations to others in the hemisphere.

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### HIST 355 African History I: Antiquity to 1600

3c-01-3sh

**Prerequisites:** Sophomore standing, completion of <u>HIST 195</u> (nonmajors)

A survey of the sociocultural, political, and economic life of precolonial African societies. Focus is on ancient kingdoms and cultures, precolonial states, internal and Atlantic trade networks.

# HIST 356 African History II: 1600 to Present

3c-01-3sh

**Prerequisites:** Sophomore standing, completion of <u>HIST 195</u> (nonmajors)

A survey of African sociocultural, political, and economic developments during the colonial and modern periods. Course covers imperialism, the struggle for control for Africa, the two global wars and their repercussions for Africa, decolonization, and modern African states.

# HIST 360 History of Pennsylvania

3c-01-3sh

Emphasizes the cultural, economic, political, and social development of our state in its various periods from colonial to today. Special attention given to diversity of Pennsylvania's people, their institutions and problems.

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### HIST 361 History of American Diplomacy, 1775-1900

3c-01-3sh

Traces foreign relations of the United States from Independence to emergence as a world power. Topics concentrate on themes of commercial relations, political isolation, expansion, and debate over imperialism.

# HIST 362 History of American Diplomacy, 1900-present

3c-01-3sh

Treats primarily our twentieth-century involvement in world affairs and domestic debate over that involvement. Special emphasis will be placed on the role of interest groups and increasing power of Executive Department over foreign affairs.

# HIST 363 Thought and Culture in Early America

3c-01-3sh

Selected topics in early American intellectual and cultural growth, with emphasis on Puritanism, Enlightenment, cultural nationalism, and Romantic movement.

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# **HIST 364 Thought and Culture in Modern America**

3c-01-3sh

Selected treatment of historical development of modern American movements in social and political thought, religion, philosophy, fine arts, and literature.

# **HIST 365 History of Black America Since Emancipation**

3c-01-3sh

Description and analysis of the role of blacks in the history of the United States since the Civil War; emphasis on key leaders, major organizations, leading movements, and crucial ideologies of blacks in modern America.

### HIST 366 African-American Women

3c-01-3sh

Major economic, social, and political issues which have affected black women since their introduction into North America to the present.

# **HIST 367 Native American History**

3c-01-3sh

An unfamiliar perspective on a familiar tale. Presents the "new Indian History"—North America from Native American materials and points of view. Identification, analysis, and synthesis of Indian realities and options over time are at the heart of this course.

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#### **HIST 369 Women in America**

3c-01-3sh

A study of the activities of women from the colonial era to the modern era—evaluating cultural, societal, religious, economic, and political frameworks. Reviews women's involvement in movements for feminism, social reform, unionism, and the abolition of slavery.

### **HIST 370 Religion in America**

3c-01-3sh

A history of religious belief and practice in the United States from the colonial period to the present, with an emphasis on the last one hundred years.

# **HIST 372 History of the Early American Working Class**

3c-01-3sh

Description and analysis of the nature and significance of the working class of the United States in the eighteenth and nineteenth centuries. The work settings and communities of workers will be examined as well as unions such as the National Labor Union and the Knights of Labor.

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# **HIST 373 History of the Modern American Working Class**

3c-01-3sh

Description and analysis of the nature and significance of the working class of the United States in the twentieth century. Work settings and strikes will be examined and analyzed as well as unions such as the United Mine Workers and the United Auto Workers and labor leaders including Samuel Gompers, John L. Lewis, and George Meany.

# **HIST 374 History of Organized Crime**

3c-01-3sh

Studies the relationship between urban, entrepreneurial crime and the evolution of industrial America.

# HIST 390 History of Women -- World Cultures

3c-01-3sh

Explores religious, legal, political, economic, and mythic dimensions of women in society from ancient to modern times, including Western and non-Western experiences.

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# **HIST 391 Film as History**

3c-01-3sh

Particularly concerned with probing the relationship between cinema and society. History of film is explored and student is given some background in film interpretation and cinematography, the western, science fiction, police films, and great foreign and American detective films.

### **HIST 480 Senior Seminar**

3c-01-3sh

A regimen of research resulting in a written paper. Students work on a program selected by the instructor. For History majors or by instructor's permission.

### **HIST 481 Special Studies in History**

var-1-3sh

### **Prerequisite:** As appropriate to course content

Each semester, courses are offered in interest areas that are not part of the regular program. Some examples of courses of this type are the Victorian Age, the History of Love, World War II, the Great Depression, the Adams Chronicles, and the History of New York City. Students may schedule as many of these courses as desired, but two per semester is the usual limit.

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# **HIST 482 Independent Study**

var-3-6sh

**Prerequisites:** Prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office with 12sh in history; a 3.0 GPA in history classes; permission of a faculty member. Approval is based on academic appropriateness and availability of resources

Involves directed reading or research for qualified students. Experimental projects and personalized learning are encouraged.

# **HIST 483 Independent Study**

3c-01-3sh

An honors program within the independent study format. Minimum qualifications are a 3.0 GPA, 15sh of history, and a 3.2 GPA in history classes. Satisfactory honors work is rewarded by formal recognition at graduation.

### **HIST 487 Honors Colloquium in History**

3c-01-3sh

Colloquium emphasizing reading, discussion, and writing on an announced historical topic or theme which will vary from semester to semester according to the expertise of the faculty member teaching the course. Open to all Honors College students who have completed HNRC 201 and, with instructor permission, to junior and senior History, History/Pre-law, and Social Science Education majors who have at least a 3.5 GPA in history classes.

# **HIST 493 Internship**

var-3-12sh

With departmental approval, students are attached to local or national government or private agencies doing directive, bibliographical, archival, or museum work. Advising professor meets with intern regularly and determines what papers or reports will be required.

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# Indiana University of Pennsylvania

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# **Mathematics**

**Department of Mathematics College of Natural Sciences and Mathematics** 

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

MATH 100 MATH 101 MATH 105 MATH 110 MATH 117 MATH 121 MATH 122 MATH 123 MATH 124 MATH 127 MATH 128 MATH 151 MATH 152 MATH 171 MATH 214 MATH 216 MATH 217 MATH 219 MATH 227 MATH 241 MATH 271 MATH 272 MATH 281 MATH 317 MATH 320 MATH 342 MATH 350 MATH 353 MATH 355 MATH 363 MATH 364 MATH 366 MATH 371 MATH 417 MATH 418 MATH 420 MATH 421 MATH 422 MATH 423 MATH 424 MATH 425 MATH 427 MATH 445 MATH 446 MATH 447 MATH 451 MATH 452 MATH 453 MATH 454 MATH 455 MATH 456 MATH 457 MATH 458 MATH 459 MATH 460 MATH 465 MATH 471 MATH 476 MATH 477 MATH 480 MATH 481 MATH 482 MATH 490 MATH 493

# **MATH 100 Intermediate Algebra**

3c-01-3sh

**Note:** May not take MATH 100 after successfully completing MATH 105 or 110 or a calculus course without the written approval of the mathematics department chairperson.

Basic course in algebra including factoring, exponents and radicals, systems of linear equations, complex fractions, and inequalities. Designed for those students who lack the basic algebraic skills required in MATH 105 or 110. Will not meet Liberal Studies math requirements.

### **MATH 101 Foundations of Mathematics**

3c-01-3sh

Introduces logic and mathematical way of analyzing problems; develops an appreciation for nature, breadth, and power of mathematics and its role in a technological society; introduces useful mathematics or mathematics related to student interest. Possible topics include logic, problem solving, number theory, linear programming, probability, statistics, intuitive calculus, introduction to computers, mathematics of finance, game theory.

### MATH 105 College Algebra

3c-01-3sh

Prerequisite: MATH 100 or equivalent high school preparation

**Note:** May not take MATH 105 after successfully completing a calculus course or MATH 110 without the written approval of the mathematics department chairperson.

Prepares students for the study of calculus for business, natural, and social sciences. Topics include a detailed study of polynomial, exponential, and logarithmic functions. Designed primarily for students planning to take MATH 121 Calculus for Business, Natural, and Social Sciences.

# **MATH 110 Elementary Functions**

3c-01-3sh

Note: May not take MATH 110 after successfully completing a calculus course without the written approval of the mathematics department chairperson.

For students not prepared to begin the study of calculus; topics include polynomial, exponential, logarithmic, and trigonometric functions.

# **MATH 117 Principles of Mathematics**

3c-01-3sh

An introduction to the nature of mathematics, designed specifically as a first course for mathematics education majors to experience several facets of mathematics including deduction, induction, problem solving, discrete mathematics, and theory of equations. Enrollment open to Secondary Mathematics Education majors only.

# MATH 121 Calculus I for Business, Natural, and Social Sciences

4c-01-4sh

**Note:** May not take MATH 121 after successfully completing another calculus course without the written permission of the mathematics department chairperson.

**Prerequisite:** MATH 105 or MATH 110 or equivalent high school preparation

Introduces non-Math major to analytic geometry, elementary functions (including logarithmic and exponential functions), central ideas of the calculus (limit, derivative, and integral), applications of derivatives to business, social, and natural sciences.

### MATH 122 Calculus II for Business, Natural, and Social Sciences

4c-01-4sh

Applications of integrals to business, natural, and social sciences, functions of several variables, trigonometric functions, sequences and series, numerical methods, differential equations.

# MATH 123 Calculus I for Physics, Chemistry, and Mathematics

4c-01-4sh

**Prerequisites:** High school algebra, geometry, and trigonometry

Functions, limits, continuity, derivatives, application of the derivative, integral, and applications of the integral. (Trigonometric and inverse trigonometric functions are included throughout the course.)

# MATH 124 Calculus II for Physics, Chemistry, and Mathematics

4c-01-4sh

Logarithmic and exponential functions, techniques of integration, sequences and series, differential calculus of functions of several variables, multiple integrals, line integrals, surface integrals, differential equations with application to physical problems.

### **MATH 127 Calculus I**

4c-01-4sh

**Prerequisite:** Permission of the mathematics department

The first in a three-course series of courses which stresses the theory of the calculus as well as the application in problem solving. Topics to be included are real numbers, an introduction to analytic geometry, functions, limits and continuity, derivatives and applications, the differential and antidifferentiation.

### **MATH 128 Calculus II**

4c-01-4sh

**Prerequisite:** Permission of the mathematics department

The second in a three-course series of courses stresses the theory of calculus as well as the application in problem solving. Topics to be included are definite integrals and applications, logarithmic and exponential functions, trigonometric and inverse trigonometric functions, polar coordinates, hyperbolic functions, indeterminate forms, improper integrals, and Taylor's formula.

### MATH 151 Elements of Mathematics I

3c-01-3sh

Topics included are sets, concepts of logic, mathematical systems, systems of numeration, developing the set of integers, rational numbers, and real numbers.

# **MATH 152 Elements of Mathematics II**

3c-01-3sh

# **Prerequisite:** MATH 151

Topics included are sentences in one variable, sentences in two variables, nonmetric geometry, metric geometry, coordinate geometry, introduction to statistics and probability, computers, and calculators..

# MATH 171 Introduction to Linear Algebra

3c-01-3sh

An introduction to vector spaces, linear transformations, determinants, and matrix algebra. Topics are presented in a direct and intuitive approach.

# MATH 214 Probability and Statistics for Business Majors

3c-01-3sh

Designed to study the methods of describing data, probability theory, discrete and continuous random variables, sampling distributions, estimation and tests of hypothesis for means, proportions and variance, and simple linear regression and correlation.

# MATH 216 Probability and Statistics for Natural Sciences

4c-01-4sh

**Prerequisite:** MATH 121

(For non-Math majors) Frequency distributions, measures of central tendency, variation, elementary probability, sampling, estimation, testing hypotheses, correlation, and regression; emphasis on applications as opposed to theoretical development of topics.

# **MATH 217 Probability and Statistics**

3c-01-3sh

(For non-Math majors) Frequency distributions, measures of central tendency, variation, elementary probability, sampling, estimation, testing hypotheses, correlation, and regression; emphasis on applications as opposed to theoretical development of topics.

### **MATH 219 Discrete Mathematics**

3c-01-3sh

Prerequisites: COSC 110, and MATH 123, 127, or MA122

Topics include set algebra, mappings, relations, semigroups, groups, directed and undirected graphs, Boolean algebra, and propositional logic, with examples and applications of these to various areas of computer science. Emphasis placed on developing an intuitive understanding of basic structures rather than formal theories and influence of these topics on theory and practice of computing.

### **MATH 227 Calculus III**

4c-01-4sh

**Prerequisite:** Permission of the mathematics department

The third in a three-course series of courses which stresses the theory of calculus as well as the application in problem solving. Topics to be included are vectors in the plane, parametric equations, vectors in three-dimensional space, solid analytic geometry, differential calculus of functions of several variables, directional derivatives, gradients, applications of partial derivatives, and infinite series.

### **MATH 241 Differential Equations**

3c-01-3sh

Prerequisites: MATH 122, MATH 124, or MATH 227

Emphasis is placed on techniques of solution and elementary physical applications. A thorough study is made of differential equations classified as order one-degree one, linear, and nonhomogeneous. Solution techniques involving reduction of order techniques, the differential operator, and infinite series are introduced.

### MATH 271 Introduction to Mathematical Proofs I

3c-01-3sh

# **Prerequisites:** MATH 123 and MATH 171

Gives student basic ideas of necessary to prove results in mathematics. Includes but is not limited to logic of mathematics, basic methods of proof, algebra of sets, equivalence relations and partitions of sets, functions, and mathematical induction.

### MATH 272 Introduction to Mathematical Proofs II

3c-01-3sh

**Prerequisites:** MATH 124 and MATH 271 with a grade of C or better

A further study of the basic ideas of contemporary mathematics. Topics include but are not limited to mathematical induction, cardinality of sets, relations, methods of proof in number theory, analysis, and algebra.

# **MATH 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

# **MATH 317 Introduction to Probability and Statistics**

3c-01-3sh

**Prerequisites:** MATH 152, Elementary Education concentration

Introduces students to elementary concepts of probability and statistics which will enable them to analyze data, make predictions, and determine which concepts may be used with children.

# **MATH 320 Mathematics for Early Childhood**

3c-01-3sh

**Prerequisites:** MATH 151, Early Childhood major

Studies child-centered, activity-oriented mathematics programs for early childhood education. Focuses on helping children develop understanding and insight into basic concepts of mathematics through the use of manipulative materials. Topics include pre-number activities, number activities, numeration, operations on whole numbers, estimation, rational numbers, geometry, measurement, probability, statistics, and problem solving.

# **MATH 342 Advanced Mathematics for Applications**

4c-01-4sh

**Prerequisite:** MATH 241

Deals with the application of mathematics to problems of science. Emphasis is placed on the three phases of such an application and on the development of skills necessary to carry out each step: (a) translation of the given physical information to a mathematical model; (b) treatment of the model by mathematical methods; (c) interpretation of the mathematical result in physical terms. Topics included are vector calculus, integral theorems, Fourier series, partial differential equations, and the Laplace transformation.

# **MATH 350 History of Mathematics**

3c-01-3sh

**Prerequisite:** MATH 122 or MATH 124 or permission of instructor

Development of the central concepts of mathematics from ancient times up to the development of calculus in the seventeenth century. Mathematical concepts will be placed in historical perspective. The use of the history of mathematics as a pedagogical tool and its relationship to other sciences will be addressed.

# **MATH 353 Theory of Numbers**

3c-01-3sh

**Prerequisite:** MATH 271 with a C or better grade

Divisibility, congruences, primitive roots, number theoretic functions, diophantine equations, continued fractions, quadratic residues.

# **MATH 355 Foundations of Geometry I**

3c-01-3sh

**Prerequisites:** MATH 171, MATH 271 with a C or better grade

Studies various groups of transformations and geometries associated with these groups in the Euclidean plane. The Euclidean Similarity and affine and projective groups of transformations are studied.

### MATH 363 Mathematical Statistics I

3c-01-3sh

Prerequisites: MATH 122, MATH 124, or MATH 216

Probability theory necessary for an understanding of mathematical statistics is developed. Applications of set theory to models, combinations and permutations, binomial, Poisson and normal distributions, expected values, and moment generating functions.

### **MATH 364 Mathematical Statistics II**

3c-01-3sh

**Prerequisite:** MATH 363

Multivariate distributions, change of variable technique, chi-square distribution, estimation, confidence intervals, hypothesis testing, contingency tables, goodness of fit. Practical applications are used to aid in the development.

# **MATH 366 Preparation for Actuarial Examinations**

1c-0l-1sh

**Prerequisites:** MATH 171 and calculus sequence

Provides an introduction to the actuarial profession and helps the student prepare for the first actuarial examinations. The examination preparation consists of studying sample actuarial examinations and related material. The student is required to take the actuarial examination. The student should be aware that for most students, considerable study beyond the requirements of this 1sh course will be required in order to pass the actuarial examinations.

# **MATH 371 Linear Algebra**

3c-01-3sh

**Prerequisites:** MATH 171, MATH 271 with a C or better grade

Vector spaces and linear transformations are studied in a theoretical setting. Also, canonical forms and multilinear algebra are studied.

# **MATH 417 Statistical Applications**

3c-01-3sh

**Prerequisites:** MATH 214, MATH 216, or MATH 217 (for non-Math majors)

Using computer programs, a wide array of statistical procedures for educational research workers will be explored. Basic concepts of statistical inference and prediction will be reviewed, including regression analysis and prediction, hypothesis testing, analysis of variance and covariance, and partial and multiple correlation. Emphasis is on use of the computer and interpretation of computer printouts, along with understanding techniques employed. No computer knowledge is necessary.

# MATH 418 Sampling Survey Theory and Its Application

3c-01-3sh

Prerequisites: (For non-Math majors) MATH 214, MATH 216, or MATH 217

Directed to the student who is or will be doing quantitative research, commissioning large-scale surveys, and evaluating the results. Sampling techniques and statistical principles underlying their use will be introduced. Consideration to the practical problems associated with implementation.

# MATH 420 Patterns and Functions for Elementary and Middle School Teachers

3c-01-3sh

**Prerequisites:** MATH 152; Elementary Education concentration

Examines the function concept as applied to elementary real number functions and graphing techniques for these functions. Topics include real number functions such as absolute value, step, linear, quadratic, and other polynomial

functions, trigonometric and other periodic functions, exponential logarithmic functions, and all other inverse functions. Students will examine curricular materials that develop function concepts in Grades K-8.

# **MATH 421 Advanced Calculus I**

3c-01-3sh

**Prerequisites:** MATH 124 and MATH 272 with a C or better grade

A study of set theory, real number system, functions topology of Cartesian space, sequences, convergence and uniform convergence, continuity, and uniform continuity.

### MATH 422 Advanced Calculus II

3c-01-3sh

**Prerequisite:** MATH 421

Includes the study of convergence sequences in Rn, global properties of continuity, uniform continuity, differentiation of Rn, Riemann integrals, and infinite series.

# MATH 423-424 Complex Variable I and II

each 3c-0l-3sh

**Prerequisite:** MATH 124 or MATH 227

An introduction to the theory of functions of a complex variable: topics included are elementary functions, analytic functions, conformal mapping, integration, series, and application.

### MATH 425 Applied Mathematical Analysis I

3c-01-3sh

Prerequisites: Calculus sequence, introductory linear algebra, or permission of instructor

Provides the necessary background for an understanding of mathematical programming, proofs of convergence of algorithms, convexity, and factorable functions. Also develops necessary concepts in matrix theory which are required to develop efficient algorithms to solve linear and nonlinear programming models.

### **MATH 427 Introduction to Topology**

3c-01-3sh

**Prerequisite:** MATH 272 with a C or better grade

A study of sets, functions, continuity, compactness, the separation of axioms, and metric spaces; application of topology to analysis is demonstrated.

### **MATH 445 Programming Models in Operations Research**

3c-01-3sh

**Prerequisites:** Two-semester sequence of calculus and MATH 171 or permission of instructor

Development of deterministic mathematical models for managerial and social sciences with relevant computational techniques.

### MATH 446 Probabilistic Models in Operations Research

3c-01-3sh

**Prerequisites:** Two-semester sequence of calculus, MATH 363

Development of probabilistic mathematical models for managerial and social sciences with relevant computational techniques.

### **MATH 447 Simulation Models**

3c-01-3sh

**Prerequisites:** Completion of the calculus sequence; background in statistics and probability, and familiarity with concepts of programming (knowledge of a particular programming language not required)

Considers the types of models that are basic to any simulation and methods for building and using such models. It includes discrete and continuous system simulations, their applications, and an introduction to SLAM II (Simulation Language for Alternative Modeling).

# **MATH 451 Numerical Methods for Supercomputers**

3c-01-3sh

Prerequisites: MATH 121 and MATH 122, or MATH 123 or MATH 127, MATH 171, COSC 250

Supercomputers make use of special computer architectures—vector and parallel processors—in order to achieve the fastest processing speed currently available. Students will be introduced to these features and will learn how numerical algorithms can be constructed to exploit supercomputers' capabilities. Students will gain practical experience in programming for the Cray, YMP, in incorporating existing scientific software packages into user-written programs, in submitting remote jobs to the Pittsburgh Supercomputer Center, and in producing animated graphical output to summarize the typically large volume of output data generated by large scientific programs. (Also offered as COSC 451; may not register for duplicate credit)

# **MATH 452 Seminar in Teaching Algebra**

var-1-4sh

# **MATH 453 Seminar in Teaching Geometry**

var-1-4sh

### **MATH 454 Seminar in Teaching General Mathematics**

var-1-4sh

Designed for pre-student teacher. Students in each class will gain insights into the problems in teaching each topic and become aware of the materials available and methods of instruction geared to the special type of student. Education majors only.

# MATH 455 Seminar in Teaching Probability and Statistics

1c-0l-1sh

Designed for the pre-student teacher. Students in each class will gain insights into the problems in teaching each topic and become aware of the materials available and methods of instruction geared to the secondary mathematics student. Education majors only.

# MATH 456 Geometry for Elementary and Middle School Teachers

3c-01-3sh

**Prerequisites:** MATH 152, Elementary Education concentration

Students become acquainted with an informal, intuitive approach to geometry. Activities and materials for teaching geometrical concepts to children are an integral part of the course.

# MATH 457 Number Theory for Elementary and Middle School Teachers

3c-01-3sh

**Prerequisites:** MATH 152, Elementary Education concentration

An introduction to topics of elementary number theory including divisibility, prime numbers, factorization, modular arithmetic, problem solving, and place of number theory in the elementary school curriculum. Students will examine many number theory activities which can help to strengthen skills with basic facts in an interesting, nonroutine setting.

### MATH 458 Logic and Logical Games for Elementary and Middle School Teachers

3c-01-3sh

**Prerequisites:** MATH 152, Elementary Education concentration

An introduction to some of the basic ideas, terminology, and notation of mathematical logic and Boolean algebra as well as games of strategy that involve logic. In addition, an investigation of how logic is taught and used in various programs for the elementary school.

### MATH 459 Technology in Elementary and Middle School Mathematics Instruction

3c-01-3sh

**Prerequisites:** MATH 152, Elementary Education concentration

Intended to develop the knowledge, skills, and perspectives required for using educational technology in teaching mathematics at the elementary and middle school levels. Participants will have hands-on experiences with technology.

# **MATH 460 Technology in Mathematics Instruction**

3c-01-3sh

# Prerequisite: COSC 205

Designed to provide preservice mathematics teachers with expertise in instructional technology for teaching mathematics at the secondary level. Pedagogical and content knowledge are integrated within the context of technology and current reforms.

# **MATH 465 Topics in Statistics**

3c-01-3sh

Prerequisite: MATH 364

Correlation and regression from applied and theoretical points of view, bivariate and multivariate normal distribution, analysis of variance, nonparametric methods. Practical problems involving statistical techniques and use of computer statistical packages. Knowledge of computer programming is not required.

# **MATH 471 Basic Concepts of Algebra**

3c-01-3sh

**Prerequisites:** MATH 152, Elementary Education concentration

Concepts of basic algebraic structures such as group, ring, integral domain, field, and vector space are studied within the context of the mathematical maturity of the student. Other topics include relations and functions, polynomials and polynomial equations, systems of equations, and inequalities. Consideration given to development of these concepts in the mathematics curriculum.

### MATH 476 Abstract Algebra I

3c-01-3sh

**Prerequisite:** MATH 272 with a C or better grade

Development of theory of integral domains, fields, rings, and groups; designed to develop student's power to think for himself or herself and to improve ability to construct formal proofs.

# MATH 477 Abstract Algebra II

3c-01-3sh

**Prerequisite:** MATH 476

Designed to have student continue study of algebra by use of axiomatic method; Euclidean domains; polynomial domains and extension fields included; interrelationships between these structures and simpler structures, particularly groups and rings, are developed as in study of Galois group of a polynomial and in an introduction to Galois theory.

# **MATH 480 Senior Seminar**

1c-0l-1sh

**Prerequisites:** Senior standing in mathematics major

To assess the effectiveness of the mathematics curriculum and to provide mathematics majors with a culminating mathematical experience.

# **MATH 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

### **MATH 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

# **MATH 490 Independent Study**

# **MATH 493 Internship in Mathematics**

var-3-12sh

Prerequisites: Completion of core curriculum, completion of application

Positions with participating companies or agencies provide students with experience in mathematics-related work under the supervision of the agencies and faculty. Requirements include one to three on-site consultations, two university consultations, completion of progress reports, and presentation of final cumulative paper. Internship credit may not be used in fulfilling math major course requirements.

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# Indiana University of Pennsylvania

2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# **Business Education**

**Department of Technology Support and Training Eberly College of Business and Information Technology** 

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

BEDU 101 BEDU 111 BEDU 130 BEDU 132 BEDU 201 BEDU 250 BEDU 264 BEDU 273 BEDU 281 BEDU 311 BEDU 312 BEDU 481 BEDU 482

**Note:** All courses at the 300 and 400 level are open only to students with junior or senior standing. All students, regardless of major or program affiliation, must meet course prerequisite requirements in order to enroll for a given course. Business majors (except those majoring in Business Education) who have not achieved Junior Standing are normally not permitted to enroll in 300- or 400-level courses.

### **BEDU 101 Microbased Computer Literacy**

3c-01-3sh

An introductory course designed to provide students with a fundamental understanding of computers. Familiarizes students with the interaction of computer hardware and software. Emphasis is placed on the application of microcomputers, the use of productivity software (word processing, spreadsheet management, file and database management), and the social and ethical aspects of the impact of computers on society.

Note: This course is cross-listed as <u>COSC 101</u> and <u>IFMG 101</u>. Any of these courses may be substituted for each other and may be used interchangeably for D or F repeats but may not be counted for duplicate credit.

### **BEDU 111 Foundations of Business Mathematics**

3c-01-3sh

Develops an understanding of numbers and knowledge of fundamental concepts in arithmetic and algebra in the solution of common and advanced problems encountered in business by the businessperson and consumer. Topics illustrating and emphasizing the application of business mathematics include methods used to compute interest discount, partial payments, discounting of notes and drafts, depreciation, amortization, sinking fund redemptions, effective rate of interest, and preparation of statistical data.

# **BEDU 130 Keyboarding**

1c-0l-1sh

**Exception:** This course is open to students in all colleges without restriction.

Designed to provide students with the fundamental skills to keyboard information quickly and accurately in fourteen one-hour sessions. It is intended for the student who does not require the additional skills included in keyboarding and document formatting, such as letter formats, manuscript typing, and tabulation. Recommended for students in computer science, journalism, management information systems, criminology, etc. (Offered as BE134 prior to 1998-99)

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# **BEDU 132 Computer Keyboarding and Formatting**

3c-01-3sh

**Prerequisite:** BEDU 130 or successful completion of proficiency exam

Focuses on the development of correct techniques in keyboarding. Emphasis is on proofreading, formatting tabulations, business letters, business reports, business forms, rough drafts, and manuscripts; additional emphasis on production, accuracy, and speed.

### **BEDU 201 Internet and Multimedia**

3c-01-3sh

**Prerequisite:** BEDU 101/COMM 101/COSC 101/IFMG 101 or prior exposure to word processing and electronic mail The major focus will be on the evaluation of information and multimedia resources available on electronic networks when doing research in an area of one's choice. This information literacy course is designed for students to gain a more in-depth understanding of the information resources available electronically and of how to utilize them more effectively in communicating. Students will learn how to access and utilize these resources for two-way communications and support for decision making while incorporating selected elements in multimedia presentations of their own design. (BEDU 201/COMM 201/COSC 201/IFMG 201/LIBR 201 may be used interchangeably for D or F repeats and may not be counted for duplicate credit.)

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### **BEDU 250 Electronic Office Procedures**

3c-01-3sh

**Prerequisite:** <u>BEDU 131</u> or equivalent

A study of the theory and practice of the systems in an electronic office: records management, office environment, communication transmittal systems, reprographics, and office procedures.

### **BEDU 264 Office Procedures**

3c-01-3sh

**Prerequisite:** BEDU 131 or equivalent

An advanced study of theory and practice in activities common to office records management; handling of mail; telephone and telegraph services; receiving callers; writing reports; dictation and transcription equipment; bank, financial, and legal transactions; shipping and receiving services; reference books; etc.

### **BEDU 273 Word Processing Applications**

3c-01-3sh

**Prerequisite:** BEDU 131 or equivalent

Students will develop a high degree of proficiency in the use of word processors. Emphasis is on machine operations and production skills in formatting, text editing, and understanding word processing concepts. May not be used as a substitute for BEDU/COSC/IFMG 101.

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### **BEDU 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

# BEDU 311 Methods and Evaluation in Business and Marketing Education I

3c-01-3sh

**Prerequisites:** <u>PSYC 101</u>, <u>EDSP 202</u>, and completion of the freshman and sophomore courses in the student's major areas

Includes general methods of teaching and evaluation plus methods and evaluation in basic business courses. Unit plans, lesson plans, and unit tests are emphasized. Techniques and procedures of teaching and classroom management are studied. Includes units in vocational education such as advisory committees, adult education, and federal legislation for funding.

# BEDU 312 Methods and Evaluation in Business and Marketing Education II

var-1-3sh

Prerequisite: <u>BEDU 311</u>, <u>EDSP 202</u>

Emphasis is placed on the development of methods and strategies for making effective classroom presentations and working with students in both the skill and cognitive areas. Students will be provided opportunities to undertake the many responsibilities assigned to the business classroom teacher.

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### **BEDU 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

# **BEDU 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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# Indiana University of Pennsylvania

2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# Study Abroad and Comparative Literature (Foreign Language)

# **College of Humanities and Social Sciences**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

FNLG 100 FNLG 121 FNLG 391 FNLG 392 FNLG 393 FNLG 394 FNLG 395 FNLG 396 FNLG 421 FNLG 482

### **FNLG 100 Study Abroad**

var-1-12sh

Registration mechanism and limited credit arrangement as provided in preapproval process for Study Abroad programs coordinated through the International Affairs Office.

### **FNLG 121 Humanities Literature**

3c-01-3sh

Introduces the student to works, authors, and genres of general literary significance in the Western tradition. Not organized historically but trains the student in the critical reading and appreciation of literature from the present and other periods. Authors, works, and themes are studied with respect to cultural context, aesthetic form, and thematic significance. Taught in English. Substitutes for <u>ENGL 121</u>.

### FNLG 391 Selected Works from the Medieval Period

3c-01-3sh

Prerequisites: ENGL/FNLG 121 or ENGL 122, ENGL 202

Comparative study of selected works of major importance per se and as representative of major themes of medieval European literature. Also listed as

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### FNLG 392 Renaissance/Baroque/Classical

3c-0l-3sh

Prerequisites: ENGL/FNLG 121 or ENGL 122, ENGL 202

Literary works representing various genres from both periods are studied and compared for their themes, motifs, and stylistic features, applying principles set forth in H. Wolffin's *Renaissance and Baroque*.

### **FNLG 393 Romanticism**

3c-01-3sh

Prerequisites: ENGL/FNLG 121 or ENGL 122, ENGL 202

The study of the principal authors and works of late eighteenth- and early nineteenth-century Europe and the unique national characteristics of the Romantic movement in lyric, drama, and prose. Also listed as <u>ENGL 393</u>.

# FNLG 394 Nineteenth-Century European Novel in Translation

3c-01-3sh

Prerequisites: ENGL/FNLG 121 or ENGL 122, ENGL 202

A survey of major nineteenth-century European novels in translation (excluding English), emphasizing the rise of

realism and naturalism and the cultural, historical, social, and artistic relationships between the various national literatures. Also listed as ENGL 394.

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# FNLG 395 Selected Writers from 20th-Century Europe

3c-0l-3sh

Prerequisites: ENGL/FNLG 121 or ENGL 122, ENGL 202

Comparative study of selected works of major importance per se or as representatives of major trends in twentieth-century literature. Also listed as <u>ENGL 395</u>.

### **FNLG 396 The Literature of Emerging Nations**

3c-01-3sh

Prerequisites: ENGL/FNLG 121 or ENGL 122, ENGL 202

A comparative study of a selection of literature written in major European languages but originating in the nations of the developing world. Works will be mainly prose fiction (although essay, theater, and poetry may be included) and reflect a diversity of geographical, cultural, and prior colonial circumstances. Also listed as <u>ENGL 396</u>.

### **FNLG 421 Language and Society**

3c-01-3sh

Considers salient facts of language and its role in society and culture. Language families, linguistic change, and reciprocal influences of culture and language are presented.

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# **FNLG 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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# Indiana University of Pennsylvania

2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# **Philosophy**

# Department of Philosophy and Religious Studies College of Humanities and Social Sciences

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

PHIL 101 PHIL 120 PHIL 221 PHIL 222 PHIL 223 PHIL 232 PHIL 281 PHIL 321 PHIL 323 PHIL 324 PHIL 325 PHIL 326 PHIL 330 PHIL 400 PHIL 405 PHIL 410 PHIL 420 PHIL 421 PHIL 450 PHIL 460 PHIL 481 PHIL 482 PHIL 482 PHIL 493

# PHIL 101 Informal Logic: Methods of Critical Thinking

3c-01-3sh

Designed to develop students' ability to analyze critically deductive and inductive argumentation, rhetoric, and persuasion, by examples drawn from media, textbooks, advertising, scholarly works, personal contacts, etc.

# **PHIL 120 Introduction to Philosophy**

3c-01-3sh

Designed to acquaint the beginning student with philosophical problems and methods in such areas as metaphysics, epistemology, logic, and value theory.

# PHIL 221 Symbolic Logic I

3c-01-3sh

An introduction to fundamental concepts in deductive logic with an emphasis on teaching students the basis of clear logical thought. Some of the historical origins of logical theory are explored. Students learn to symbolize arguments in the truth-functional logic and the predicate logic. Ways of testing arguments for validity as well as proofs are covered, with a stressing of application to actual arguments drawn from numerous sources in the media, philosophical issues, and moral problems.

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### PHIL 222 Ethics

3c-01-3sh

An investigation of efforts to rationally justify moral judgment. Deals with fundamental issues such as: What is morality? Are moral notions cultural, rational, divine, or innate in origin? Are they relative or absolute? Are they freely chosen or determined by genetics and/or environment? Covers a variety of ethical theories significant both historically and contemporarily and applies those theories to current issues which involve moral dilemmas.

# PHIL 223 Philosophy of Art

3c-01-3sh

Investigates some of the major problems in the philosophy of art, e.g., the nature of beauty and the aesthetic experience, the ethics and politics of art, creativity, the nature of the work of art and aesthetic objects, the concept of fine art, and the evaluation of works of art and aesthetic objects.

# PHIL 232 Philosophical Perspectives on Love, Marriage, and Divorce

3c-01-3sh

Examines the philosophical foundations of contemporary Western institutions and ideologies of romantic love. Considers major positions in both the history of philosophy and contemporary philosophy. Investigates the concepts, problems, and philosophical theories central to understanding romantic love, marriage, and divorce.

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### **PHIL 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

### PHIL 321 Symbolic Logic II

3c-01-3sh

**Prerequisite:** PHIL 221 or permission of instructor

A continuation of Symbolic Logic I designed to enable students to evaluate consistency of statements, validity of arguments, soundness and completeness of formal systems. Focus on quantificational calculus and inductive logic.

# **PHIL 323 Political Philosophy**

3c-01-3sh

An inquiry into the philosophical concepts underlying the major political theories from ancient Greece to the modern era. Emphasis will be placed on major authors and texts to demonstrate a continuum of ideas and their modifications, replacement, and revival, as well as novel political ideas. Possible topics: commonality; peace; internationalism; sovereignty; nature of the state; law; the ruler; cosmopolitanism; nationalism; social contract; liberty; obligation; property; racism; sexism; slavery.

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# PHIL 324 History of Philosophy I: Ancient and Medieval

3c-01-3sh

Western philosophy of pre-Socratic, classical Greek, Roman, and medieval periods. Special attention given to Plato, Aristotle, Augustine, and Aquinas, as well as the philosophic schools.

# PHIL 325 History of Philosophy II: Renaissance and Modern

3c-01-3sh

A continuation of PHIL 324, beginning with fifteenth-century Renaissance thought and ending with the nineteenth-century precursors of contemporary philosophies.

# PHIL 326 Phenomenology and Existentialism

3c-01-3sh

A study of the phenomenological method as developed by Edmund Husserl and of the subsequent phenomenological movement as exemplified in the works of such representative figures as Heidegger, Merleau-Ponty, and Paul Ricoeour and of existentialism both as an independent movement of thought and as influenced by phenomenology and exemplified in the works of such representative figures as Kierkegaard, Jaspers, Marcel, Buber, and Sartre.

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# PHIL 330 Philosophy of Science

An investigation into the nature of formal and empirical sciences: structure of scientific thought and its dependence upon or independence of theory; the logical and metaphysical status of scientific laws and theoretical concepts; reductionism in science; the concept of causality; the logic of explanation; problems in confirmation theory; science and value. No special background required. Recommended for math and science majors.

### **PHIL 400 Ethics and Public Policy**

3c-01-3sh

An analysis of the ethical dimension of public policies. Provides a general understanding of ethical theories, then focuses on their application to specific policy issues. Topics will vary from semester to semester. See current schedule of classes.

# **PHIL 405 Justice and Human Rights**

3c-01-3sh

An introduction to theories of justice and an analysis of the concept of human rights which is central to a just society and to much moral, political, and legal dispute. Explores relevant major positions in the history of philosophy, but its major focus is contemporary and raises issues such as women's rights, black rights, animal and environmental rights, welfare rights, and rights to life (or death).

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# PHIL 410 Contemporary Analytic Philosophy

3c-01-3sh

An investigation of twentieth-century Western positions such as pragmatism, logical positivism, logical and linguistic analysis.

# PHIL 420 Metaphysics

3c-01-3sh

A study of the nature of reality in general and of the main categories through which it is understood. The main topic areas of metaphysics concern: the one and the many; the relation of thought and being; the problem of universals; nominalism; realism; idealism; the nature of being, substance, essence, space, time, eternity, matter, mind; determinism and indeterminism.

# PHIL 421 Theory of Knowledge

3c-01-3sh

An investigation into problems involved in knowledge and justification and a consideration of methods suggested for their resolution. Particular attention is paid to issues such as knowledge, justification, certainty, objectivity, perception, and truth.

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# PHIL 450 Philosophy of Law

3c-01-3sh

An examination of the nature of law and its relationship to such questions as morality, obligation, judicial review, justice, rights, punishment, liberty. Combines philosophical theory with consideration of selected court cases to develop a philosophical and legal understanding of law and its place in society.

### PHIL 460 Philosophy of Language

3c-01-3sh

An investigation of issues in the philosophy of language and related issues in linguistics (including anthropological linguistics, sociolinguistics, and psycholinguistics). Topics include, for example, the influence of language on

perception, rationalist/empiricist perspectives on language acquisition, language and political control, reference, meaning, and truth.

#### **PHIL 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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#### **PHIL 482 Independent Study**

var-1-6sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources. May be taken more than once to a maximum of 6sh. (This option is available to both philosophy majors and nonmajors.)

## PHIL 482 Independent Study: Honors Project

3c-01-3sh

**Prerequisites:** Prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office. 3.00 cumulative GPA, 15sh in Philosophy, and 3.20 GPA in departmental courses

Majors in Philosophy are invited to take 3sh of independent study designated Honors Project. Upon satisfactory completion, graduation with departmental honors is possible.

## PHIL 493 Internship in Philosophy

var-3-6sh

**Prerequisites:** Permission of the department, junior or senior PHIL major or double major, 2.5 QPA A supervised experience of no longer than one semester and no less than five weeks. This would take place in either a public or private organization in areas that either extend and develop or complement coursework in Philosophy. Log and/or major paper required. Internships are to be done with a clear analysis, argumentation, and examination of governing principles.

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# Indiana University of Pennsylvania

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# **Religious Studies**

## Department of Philosophy and Religious Studies College of Humanities and Social Sciences

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

RLST 100 RLST 110 RLST 200 RLST 210 RLST 250 RLST 260 RLST 281 RLST 290 RLST 311 RLST 312 RLST 329 RLST 360 RLST 365 RLST 370 RLST 375 RLST 380 RLST 410 RLST 440 RLST 481 RLST 482 RLST 482 RLST 493

## **RLST 100 Introduction to Religion**

3c-01-3sh

An introduction to the academic study of religion through an examination of various dimensions of religious expression and traditions. Covers such areas as problems about definition of religion; approaches to the study of religion; the goals, language, and rituals of religion; cases of religious experience; faith, disbelief, and alternatives to religion; religion and the sociocultural context.

#### **RLST 110 World Religions**

3c-01-3sh

A comparative study of the history, teaching, and rituals of the major religions of the world and their influence on contemporary society. A nonsectarian approach to religions such as Native American religion, Afro-American religion, Judaism, Christianity, and Islam in relationship to Hinduism, Buddhism, Confucianism, Taoism, and Shinto.

## **RLST 200 Religion and Culture: Their Interaction**

3c-01-3sh

A systematic study of the interaction of religions and various components of culture, as a way of understanding the phenomenon of religion. The approach is functional and descriptive; it uses case studies which are chronologically and culturally diverse, covering such areas as religion and politics, economics, arts, science, and literature.

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#### **RLST 210 World Scriptures**

3c-01-3sh

Major sacred writings of Hindu, Buddhist, Zoroastrian, Moslem, Confucian, Taoist, and Judeo-Christian traditions will be studied from point of view of their religious significance.

#### **RLST 250 Understanding the Bible**

3c-01-3sh

An introduction to scholarly methods and major themes necessary to understand the Hebrew Scriptures and the New Testaments of the Judeo-Christian tradition.

#### **RLST 260 American Religious Development**

3c-01-3sh

A survey and analysis of topics which depict the role of religion in the U.S., e.g., American Indian religion; religion and the discovery/colonization/immigration trends of the U.S.; religion and the Constitution; indigenous religious movements; black religion; ecumenism; atheism; cults; mass media and religion; religion in Indiana County.

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#### **RLST 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

#### **RLST 290 Christianity**

3c-01-3sh

A study of the beliefs, practices, significant persons, history, and cultural impact of Christianity.

#### **RLST 311 Eastern Philosophy**

3c-01-3sh

An examination and critique of the philosophies which have shaped Eastern world views and ways of life as found in a representative sampling of Chinese, Japanese, and Indian thought.

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#### **RLST 312 Archaeology and the Bible**

3c-01-3sh

An investigation of religious-historical traditions of the Bible in light of archaeological research. Includes a study of archaeological method and interpretation, discoveries in Egypt, Mesopotamia, and Syro-Palestine as background for understanding the traditions and religious practices and beliefs of Israel, and special questions surrounding the Patriarchal narratives, the Exodus and Conquest, Israel under David and Solomon, the Dead Sea Scrolls, and New Testament times.

#### **RLST 329 Philosophy of Religion**

3c-01-3sh

A philosophical critical examination of religion to include: the nature of religion; religious argumentation; existence and nature of God; meaning and relation of faith and knowledge; theories of origin or religion. (Offered as PHIL 329 prior to 1995-96)

## **RLST 360 African Religions**

3c-01-3sh

An examination of the nature of African traditional religion and how traditional religion, Islam, and Christianity coexist and influence each other.

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#### **RLST 365 Native North American Religions**

3c-01-3sh

An introduction to the indigenous religions of North America and to the peoples who practice these rich and varied approaches to the sacred. This course not only examines major religious themes and dimensions (myth, ritual, ethics, etc.) but includes a historical perspective on North American Indian lifeways. This perspective involves discussion of

the clash with Euro-American values and contemporary native religious responses to social crisis and change.

#### **RLST 370 Religions of China and Japan**

3c-01-3sh

A study of Confucianism, Taoism, Buddhism, Shinto, and popular religion in China and Japan, including historical and theological foundations, development of thought, contemporary expressions, and encounters with the modern world.

## **RLST 375 Religions of India**

3c-01-3sh

A study of Hinduism, Indian Buddhism, Jainism, and Sikhism, including historical and theological foundations, development of thought, contemporary expressions, and encounters with the modern world.

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#### **RLST 380 Islam**

3c-01-3sh

A study of Islam including historical and theological foundations, developments of thought, contemporary expressions, and encounters with the modern world.

#### **RLST 410 Early Christian Thought**

3c-01-3sh

The development of Christian thought approached through an in-depth study of selected writings from the early Church Fathers to the Protestant Reformers.

## **RLST 440 Modern Christian Thought**

3c-01-3sh

An examination of Christian thought, approached through in-depth study of selected writings from major theologians of the nineteenth and twentieth centuries.

#### **RLST 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are offered primarily for upper-level undergraduate students.

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## **RLST 482 Independent Study**

var-1-6sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office Individual students wishing to pursue religious studies interests not covered in the department's regular offering may do so by approval. Upon approval students are guaranteed at least five hours of faculty time per semester hour. All programs of study must be accepted by the department as a whole. May be taken more than once to maximum of 6sh. (This option is available to both Religious Studies majors and nonmajors.)

#### **RLST 482 Independent Study: Honors**

3c-01-3sh

**Prerequisites:** 3.00 QPA, 15sh in Religious Studies, and 3.20 average in departmental courses

Majors in Religious Studies are invited to take 3sh of independent study-designated Honors Project. Upon satisfactory completion, graduation with departmental honors is possible.

## **RLST 493 Internship in Religious Studies**

6-12sh

**Prerequisites:** Junior or senior; Religious Studies major or double major; 2.5 QPA in major; department approval A supervised experience in a public or private organization which extends and complements coursework in Religious Studies.

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# Indiana University of Pennsylvania

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# **Art History**

## Department of Art College of Fine Arts

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

ARHI 101 ARHI 205 ARHI 206 ARHI 211 ARHI 222 ARHI 281 ARHI 300 ARHI 407 ARHI 408 ARHI 409 ARHI 412 ARHI 413 ARHI 416 ARHI 481 ARHI 482

#### **ARHI 101 Introduction to Art**

3c-01-3sh

Designed to introduce the student to the significance of art as related to contemporary living and our historical heritage.

## **ARHI 205 Ancient to Medieval Art**

3c-01-3sh

A study of art from prehistoric times to the Middle Ages. Humankind's artistic development is seen in relation to political, social, economic, and religious events.

#### ARHI 206 Renaissance to Baroque Art

3c-01-3sh

A study of art from the Renaissance to the Baroque in light of the historical events which affect humankind's artistic impulses and development.

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#### **ARHI 211 Modern Art**

3c-01-3sh

A survey of the revolutionary movements which began about 1850; concludes with trends in contemporary arts.

#### ARHI 222 Art in America

3c-01-3sh

Surveys American art and its relation to the development of American ideas and ideals.

## **ARHI 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

#### **ARHI 300 Native American Art**

3c-01-3sh

**Prerequisites:** ARHI 101, junior standing, or permission

A survey of the broad forms of visual arts and crafts that reflects the lifeways of Native Americans from paleo-indian origins to A.D. 1900.

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#### **ARHI 407 Medieval Art**

3c-01-3sh

Art and architecture of Europe during the Middle Ages, beginning with early Christian and Byzantine and concluding with the Gothic period. Dual listed for graduate credit as ARHI 507.

#### **ARHI 408 Italian Renaissance Art**

3c-01-3sh

Italian art from 1400s through 1650 and Mannerist movement. Special attention paid to great masters of the period. Dual listed for graduate credit as ARHI 508.

#### **ARHI 409 Baroque and Rococo Art**

3c-01-3sh

A general survey of art from 1575 to 1775, will include architecture, sculpture, painting, and other arts. Dual listed for graduate credit as ARHI 509.

#### **ARHI 412 Classical Art**

3c-01-3sh

A historical survey of the architecture, painting, sculpture, and minor arts of the classical period of Greece and Rome, including the Minoan, Mycenaean, and Etruscan cultures.

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#### **ARHI 413 Senior Seminar**

3c-01-3sh

Intended to help students develop adequate vocabularies and methods to be used in discussion and criticism of works of art.

#### **ARHI 416 Northern Renaissance Art**

3c-01-3sh

Explores phenomena of art north of the Alps from 1400 to 1600, especially as it appears in the Lowlands, as well as side explorations into art of France, Germany, Austria, and the court at Prague.

#### **ARHI 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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## **ARHI 482 Independent Study**

## var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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# Indiana University of Pennsylvania

2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# **Music History**

## **Department of Music** College of Fine Arts

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

<u>MUHI 101 MUHI 281 MUHI 301 MUHI 302 MUHI 322 MUHI 323 MUHI 324 MUHI 325 MUHI 420 MUHI 421 MUHI 481 MUHI 482</u>

#### **MUHI 101 Introduction to Music**

3c-01-3sh

Presumes no technical background but does utilize the varied musical experiences of each individual to help extend interest as far as possible. Attendance at various concerts of university organizations, cultural life events, and visiting artist concerts is required to augment listening experiences of students.

## **MUHI 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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## **MUHI 301 Music History I**

3c-01-3sh

Prerequisites: HIST 195, ENGL 101, ENGL 202, HIST 305

An intensive study of the history and style of Medieval, Renaissance, and Baroque music. Considerable analytical listening required.

## **MUHI 302 Music History II**

3c-01-3sh

**Prerequisites:** MUHI 301 or permission

An intensive study of the history and styles of Classical, Romantic, and twentieth-century music to 1950. Considerable analytical listening required.

#### **MUHI 322 Medieval and Renaissance Music**

3c-01-3sh

An intensive study of the plainchant foundations in the early Middle Ages; the origins of polyphony; sacred and secular music of the thirteenth to the sixteenth centuries; special emphasis on Dufay, Josquin, Palestrina, and their contemporaries.

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3c-01-3sh

Prerequisites: MUHI 301, 302

Extends from Monteverdi through Bach and Handel and considers vocal and instrumental forms, styles, and practices

of era.

#### **MUHI 324 The Classical Era**

3c-01-3sh

Prerequisites: MUHI 301, 302

A survey of music from about 1725 to about 1827, with special attention to the music of Mozart and Haydn.

Consideration is given also to the works of D. Scarlatti and C.P.E. Bach.

#### **MUHI 325 The Romantic Era**

3c-01-3sh

A survey of music from about 1800 to 1910, with attention directed to the earlier romantic composers such as Beethoven, Schubert, Mendelssohn, and Berlioz through the later romantic composers such as Wagner, Tschaikowsky, Mahler, and Dvorak as well as others.

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#### **MUHI 420 The 20th Century**

3c-01-3sh

Prerequisites: MUHI 301, 302

A survey of the stylistic trends of music from 1900 to the present, beginning with Debussy, Ravel, and other impressionists through the music of Schonberg, Stravinsky, Webern, Honegger, and Milhaud. Offered infrequently.

#### **MUHI 421 American Music**

3c-01-3sh

Prerequisites: MUHI 301, 302

A study of history and literature of music in America from 1600 to the present day.

## **MUHI 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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#### **MUHI 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through adviser, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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# Indiana University of Pennsylvania

2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# **Theater**

## **Department of Theater** College of Fine Arts

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

THTR 101 THTR 102 THTR 110 THTR 116 THTR 120 THTR 122 THTR 130 THTR 131 THTR 150 THTR 201 THTR 202 THTR 202 THTR 221 THTR 223 THTR 240 THTR 250 THTR 260 THTR 270 THTR 280 THTR 281 THTR 290 THTR 301 THTR 302 THTR 310 THTR 320 THTR 321 THTR 322 THTR 323 THTR 340 THTR 341 THTR 342 THTR 345 THTR 347 THTR 350 THTR 351 THTR 353 THTR 481 THTR 482 THTR 483 THTR 484 THTR 485 THTR 486 THTR 489 THTR 493

#### **THTR 101 Introduction to Theater**

3c-01-3sh

An exploration of the theater arts, examining major periods of theater history, selected works of dramatic literature, and the primary theater arts of acting, directing, design, and technical theater. Class experience includes the analysis of at least two major works of drama, attending two live productions, and viewing of selected televised plays and musicals.

#### **THTR 102 Introduction to Dance**

3c-01-3sh

Examines dance as a performing art in both the historical and cultural contexts. Also includes the analysis of a major piece of choreography, attending live performances, and viewing select works of dance. No previous dance experience is required.

## **THTR 110 Script Analysis**

3c-01-3sh

Examines major as well as alternative systems by which dramatic texts may be analyzed, including classical plot construction, scene structure, tension and release, dramatic rhythms, and several contemporary and less conventional methods of dramatic orchestration.

#### Back to Top

#### THTR 116 Fundamentals of Theatrical Design

3c-01-3sh

Introduces the fundamentals of scene, costume, lighting, and sound design for theater and dance. Focuses on creative processes used by designers to make choices. Topics include script analysis, director and designer communication, and the integration of the design elements into a unified production.

#### THTR 120 Stagecraft I

3c-01-3sh

An exploration of the material, methods, and procedures utilized in creating a scenic environment. Through instruction and practical application, students learn the basis of scenic construction and develop competency with the basic

materials and equipment used in a theatrical scene shop.

#### **THTR 122 Costume Workshop**

3c-01-3sh

Instruction and practical experience in the process of building costumes for the stage. Activities include fitting, cutting, sewing, dyeing, and painting. There is also instruction in the maintenance of wardrobe, costume stock, materials, and properties.

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#### **THTR 130 Stage Voice**

3c-01-3sh

**Prerequisite:** Theater majors only, or by permission of instructor

Instruction in basic development of the vocal instrument of the actor in stage performance. Emphasis is placed upon the resonance, quality, pitch, and projection of the voice while improving the student's ability to articulate.

## **THTR 131 Stage Movement**

3c-01-3sh

Instruction in basic stage movement and the physicalization of character. Includes work in character development through variety in movement, introductory work in juggling, stage combat, and mime, and the assessment, awareness, and correction of individual movement problems.

#### **THTR 150 Fundamentals of Dance**

3c-01-3sh

A basic dance technique that sequentially develops the elements of movement (space, time, force) into a variety of dance genres and period styles. Covers special care and safety of the instrument—the body.

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#### THTR 201 Theater History I

3c-01-3sh

A comprehensive survey of the history, trends, and developments of theater and drama from their beginnings through the English Renaissance.

#### THTR 202 Theater History II

3c-01-3ch

A comprehensive survey of the history, trends, and developments of theater and drama from the English Restoration to the present.

#### THTR 220 Stagecraft II

3c-01-3sh

**Prerequisite:** THTR 120 or permission

An advanced exploration of materials, methods, and procedures involved in creating a scenic environment. Students also receive intensive practical experience in shop planning and supervision to include problem-solving techniques.

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#### **THTR 221 Basic Stage Lighting**

3c-01-3sh

**Prerequisite:** THTR 120

An introduction to lighting instruments, color media, control boards, physical laws of electricity and optics, graphics, and conventional techniques used in lighting theatrical productions.

#### **THTR 223 Makeup for the Stage**

3c-01-3sh

Deals with practical application of straight and character makeup and may include instruction in creating beards, wigs, prosthetics, and masks.

## THTR 240 Acting I

3c-01-3sh

The study of the primary elements of the Stanislavski system of character development. Includes text analysis and the development of physical action through a character's subtext, as well as motivational and improvisational techniques.

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## **THTR 250 Contemporary Dance**

3c-01-3sh

Contemporary dance techniques, improvisation, and choreography. Examines the historical development and cultural influences on the changing philosophies of contemporary dance performance today. Performance of creative work required.

#### THTR 260 Jazz Dance

3c-01-3sh

Jazz techniques, dynamics, and style for theater dance from the 1920s through the present. Emphasis will be on analysis of music for choreography.

## **THTR 270 Ballroom and Tap Dance**

3c-01-3sh

A sequential development of tap and ballroom dance techniques in the context of historical development and period styles. Performance for an audience is required.

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#### THTR 280 Ballet

3c-01-3sh

Sequential development of barre and center techniques that progress to linking moves, turning, and jumps, to dance sequences and choreography. The historical periods of development and the status of the art today will be examined in a cultural context which includes gender and minority influences.

## **THTR 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

## **THTR 290 Ethnic Dance**

3c-01-3sh

Includes dance techniques from a variety of indigenous forms from Western and Eastern cultures. Presented in the historical and social context. Emphasis will be given to the needs of theater production.

### Back to Top

## **THTR 301 Tragic Mask**

3c-01-3sh

A historical survey of theatrical conventions, traditions, and production practices specifically associated with tragedy and its ensuing forms: drama and melodrama. Focuses on landmark dramatic texts, examining the changing faces of tragic masks and their implications for theatrical practice from ancient Greece to the twentieth century.

#### **THTR 302 Comic Mask**

3c-01-3sh

A historical survey of theatrical conventions, traditions, and production practices specifically associated with comedy and its related forms: farce, burlesque, etc. Focuses on landmark dramatic texts, examining the changing faces of comic masks, their conventions, and their implications for theatrical practice from ancient Greece to the twentieth century.

#### THTR 310 Theater Criticism

3c-01-3sh

A study of the theory of criticism and of the discrete functions of critic and reviewer. Students see live performances and practice writing both reviews and criticism.

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#### THTR 320 Scene Design

3c-01-3sh

**Prerequisite:** THTR 120

An introduction to the principles of scenic composition, analysis, concept development, and graphic communication methods used by the scenographer.

## **THTR 321 Stage Lighting Design**

3c-0l-3sh

**Prerequisite:** THTR 221

Covers the design and execution of stage lighting with emphasis on script analysis, the collaborative role of the lighting designer, lighting theory, and modern stage lighting practices. Practical applications include the conceptualization and designing of production lighting for Proscenium, Thrust, and Arena stages through class exercises.

#### **THTR 322 Costume Design**

3c-01-3sh

Covers design and execution of stage costumes with emphasis on showing how mood and illusion can be created through the proper selection of style, color, and texture, supplemented by an overview of stage costuming.

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## **THTR 323 Sound Design**

3c-01-3sh

Covers the basic principles and theories of designing sound for the theater. Through demonstration and practical application, covers the following principal areas: basic electronics, recording techniques and equipment, musical and effects integration, theater acoustics, designing sound, and sound reinforcement.

#### THTR 340 Acting II

3c-01-3sh

Prerequisites: THTR 240 or permission of instructor

The study of the evolving Stanislavsky system and its American reinterpretations as applied to realism and other dramatic genres and styles. Emphasis will be on scoring of text, exploring the relationships between psychological states and physical action.

## **THTR 341 Acting Styles**

3c-01-3sh

Prerequisite: THTR 130, THTR 131, THTR 240 or permission of instructor

A study and practice of advanced acting skills, with special emphasis on style and period. Possible areas of focus: Greek classical, Commedia Dell'Arte (farce), French Neoclassical, Restoration Comedy, Melodrama, High Comedy (Wilde/Coward), or Theater of the Absurd.

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#### **THTR 342 Acting Shakespeare**

3c-01-3sh

**Prerequisites:** THTR 240, THTR 340 (or permission of instructor)

An advanced acting studio which will prepare students to perform in Shakespeare's plays. Provides a background overview of the Elizabethan period in addition to various methods towards approaching the movement, language, and verse forms from an actor's point of view.

## THTR 345 Touring Young People's Theater

3c-01-3sh

Introduces the fundamentals of young people's theater for audiences aged five through fifteen years. Class members will select appropriate children's literature, develop a script through improvisation, and rehearse and tour their production to the surrounding schools.

## **THTR 347 Playwriting**

3c-01-3sh

**Prerequisite:** THTR 110, or permission of professor

A practical exploration of the craft and process of playwriting. Focuses primarily on the practical, "hands-on" experiences approximating the "developmental process" currently in use in the American theater. The student will be guided from the initial concept through synopsis, outlines, working drafts, and completion of an original one-act play and a "staged reading" of this project.

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#### **THTR 350 Directing**

3c-01-3sh

**Prerequisites:** THTR 110, THTR 240, permission

An introduction to basic directing skills: casting, floor plans, blocking, rehearsal procedures, and the applications of scene and character analysis. Students will prepare short scenes for class presentation.

#### **THTR 351 Choreography**

3c-01-3sh

**Prerequisite:** One of the following introductory or advanced-level dance classes: <u>THTR 150</u>, <u>250 260</u>, <u>270</u>, <u>280</u>, <u>485</u>; or permission of instructor

Introduces the necessary choreographic tools needed to manipulate dance as a medium to create dance works. The class will learn and use various approaches to the choreographic process to create dance works, one of which will be presented in a public showing at the end of the semester.

#### **THTR 353 Dance Curriculum and Instruction**

3c-01-3sh

**Prerequisites:** One of the following theater courses: <u>THTR 250</u>, <u>260</u>, <u>270</u>, <u>280 290</u>, or <u>485</u>; or permission of instructor Introduces the necessary teaching skills and curriculum development needed to understand the pedagogical structure

for teaching dance. The class will learn the approaches to teaching that are unique to dance and will learn how to design dance curriculum.

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### **THTR 481 Special Topics**

var-1-6sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

## **THTR 482 Independent Study**

var-1-6sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office Independent study in theater may be either purely academic or may be a practical production project, supported by a written document giving evidence of significant scholarly investigation or original, creative effort. May be repeated to a maximum of 6sh. Approval is based on academic appropriateness and availability of resources.

## **THTR 483 Acting Studio**

3c-2l-3sh

**Prerequisites:** Minimum of <u>THTR 240</u>, by permission; individual foci have additional prerequisites An advanced studio course offering scene practice with faculty direction, coaching, and criticism. Specific focus of scene work varies from semester to semester, including improvisation techniques, stage dialects, audition techniques, and acting for the camera as alternating semester options. May be repeated with a different focus each time.

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#### **THTR 484 Directing Studio**

3c-21-3sh

**Prerequisites:** THTR 350, permission

An opportunity for students to direct scene work, one-act plays, or larger projects, according to individual levels of experience, preparation, and readiness. Practical application of principles of directing to specific problems in directing. Student projects performed in public, open-class recitals. May be repeated.

#### **THTR 485 Dance Studio**

3c-01-3sh

**Prerequisites:** THTR 250, 260, 270, or 280 (beginning technique class taken must be the specific dance genre of the Dance Studio class offered); or by permission of instructor

Furthers the development of the dancer at the intermediate level of a specified genre of dance. Development in dance requires the integration of both technique and artistic development. The specific genres vary from semester to semester, including modern, ballet, tap, and jazz as alternating semester options. May be repeated with a different focus each time.

#### **THTR 486 Practicum in Production**

var-.5-4sh

**Prerequisite:** Permission of instructor

An opportunity with academic credit for students to make significant contributions to campus productions augmenting theater coursework in the areas of assistant directing or directing, stage management, technical direction, sound design, lighting, scene design, properties and set decoration, scene building and painting, costuming, dance, and make-up design. May be repeated.

#### **THTR 489 Technical Theater Problems**

3c-01-3sh

**Prerequisite:** Permission of instructor

Open to all students desiring instruction in a variety of technical theater areas not presently covered in other courses. Topics to include sound design, stage management, set props, media make-up, technical drawing/mixed media, and scene painting. May be repeated.

## **THTR 493 Internship**

var-3-12sh

**Prerequisite:** Permission of instructor

Opportunities for students to gain experience with professional performance organizations in areas related to theater and dance.

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# Indiana University of Pennsylvania

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# **Biology**

#### **Department of Biology**

**College of Natural Sciences and Mathematics** 

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

BIOL 103 BIOL 104 BIOL 105 BIOL 111 BIOL 112 BIOL 114 BIOL 115 BIOL 116 BIOL 150 BIOL 151 BIOL 155 BIOL 210 BIOL 220 BIOL 232 BIOL 241 BIOL 242 BIOL 250 BIOL 251 BIOL 252 BIOL 261 BIOL 262 BIOL 263 BIOL 269 BIOL 271 BIOL 272 BIOL 281 BIOL 310 BIOL 311 BIOL 321 BIOL 322 BIOL 331 BIOL 350 BIOL 352 BIOL 363 BIOL 363 BIOL 364 BIOL 401 BIOL 425 BIOL 450 BIOL 453 BIOL 463 BIOL 466 BIOL 475 BIOL 476 BIOL 478 BIOL 480 BIOL 481 BIOL 482 BIOL 493

#### **BIOL 103 General Biology I**

3c-2l-4sh

**Prerequisite:** Non-Biology majors only

A basic introduction to ecology, biochemistry, and cell biology, genetics, and evolution.

#### **BIOL 104 General Biology II**

3c-21-4sh

Prerequisites: **BIOL** 103, non-Biology majors only

A basic introduction to plant and animal physiology, neurobiology, animal behavior, and plant and animal reproduction and development.

#### **BIOL 105 Cell Biology**

3c-01-3sh

**Prerequisite:** Non-Biology majors only

An introductory course to provide concepts and applications for understanding human biological function from the point of view of cellular biology.

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#### **BIOL 111 Principles of Biology I**

3c-31-4sh

**Prerequisite:** Must be taken after or concurrent with CHEM 111

Introduces the student to principles of biology, specifically in the topics of cell structure and function, genetics, and physiology. Develops skills in the use of the scientific method. Designed for biology majors.

#### **BIOL 112 Principles of Biology II**

3c-31-4sh

**Prerequisite: BIOL** 111

Introduces the student to principles of biology, specifically in the topics of reproduction, development, evolution, ecology, and animal behavior. Develops skill in the use of the scientific method. Designed for biology majors.

#### **BIOL 114 Environmental Science**

3c-01-3sh

**Prerequisite:** Non-Biology majors only

An introduction to environmental science with an emphasis on human impacts. Uses an interdisciplinary approach to the consideration of population growth, pollution, preservation of species, and establishment of public policy. Students will learn basic principles in ecology as the basis for understanding problems of the environment.

## **BIOL 115 Biotic Diversity of North America**

3c-01-3sh

Prerequisites: Non-Biology majors and non-Biology minors only

An introduction to the biological diversity of North America from Barrow, Alaska, to Tehuantepec, Mexico. All major aquatic and terrestrial biomes occurring in North America will be examined with regard to plant forms, animal composition, and environmental (abiotic) conditions.

#### **BIOL 116 Introduction to Marine Biology**

3c-01-3sh

Prerequisite: Non-Biology and non-Biology Education majors and non-Biology minors only

An introduction to the world of marine biology. Topics covered will include a discussion of the major groups of plants and animals found in the marine environment and a discussion of the major communities that make up the oceans of the world.

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## **BIOL 150 Human Anatomy**

2c-31-3sh

**Prerequisite:** Non-Biology majors only

A study of the functional systematic anatomy of the human. Lab studies center on nonhuman mammals whose anatomy is then related to the human condition.

#### **BIOL 151 Human Physiology**

3c-2l-4sh

**Prerequisites:** <u>BIOL 105</u>, non-Biology majors only

Deals with acquiring, through lecture presentations and laboratory experiments, an understanding of the basic functions and control of the major organ systems of the human body. Organ systems examined include the following: muscular system, cardiovascular system, respiratory system, endocrine system, renal system, digestive system, reproductive system, and nervous system.

#### **BIOL 155 Human Physiology and Anatomy**

3c-31-4sh

**Prerequisite:** Non-Biology majors only (Food and Nutrition, Dietetics, Family and Consumer Sciences Education, Physical Education, and Safety Sciences majors)

A study of structure and function of the human body. Emphasis is on normal function, with particular attention to functional anatomy, control mechanisms, and interrelationships among systems. Laboratory studies will include experimentation and dissection. For students with little or no science background.

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## **BIOL 210 Botany**

2c-31-3sh

**Prerequisite:** BIOL 111-112, or permission of instructor

A survey of the major plant groups, their physiology, structure, life cycles, evolution and ecology, and economic roles of plants. Combined lecture-laboratory.

#### **BIOL 220 General Zoology**

2c-3l-3sh

**Prerequisite:** BIOL 111-112 or permission of instructor

An examination of the evolution, form, and function of all major animal phyla, from sponges through chordates. Interactive lecture-laboratory sessions follow a phylogenetic approach to the Animal Kingdom and incorporate essentials of animal ecology, physiology, functional morphology, and behavior.

#### **BIOL 232 Fundamentals of Microbiology**

2c-31-3sh

**Prerequisites:** CHEM 101 or equivalent, non-Biology majors only (Food and Nutrition, Dietetics, Family and Consumer Sciences Education, and Hotel, Restaurant, and Institutional Management majors)

A study of microorganisms and the role they play in water, food disease, and infection. Food spoilage, poisoning, and disease are emphasized. General methods and techniques are emphasized in the laboratory.

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#### **BIOL 241 General Microbiology**

2c-31-3sh

**Prerequisites:** Non-Biology majors only (Environmental Health, Nursing and Respiratory Therapy majors), <u>BIOL</u> 105, <u>CHEM 101</u>, or equivalent

A study of microorganisms and the role they play in water, soil, food, and infection. Microbes and disease will be emphasized. Standard methods and techniques are emphasized in laboratory.

## **BIOL 242 Comparative Vertebrate Anatomy**

2c-3l-3sh

**Prerequisites:** BIOL 220

An investigation of the comparative structure and function of the vertebrate body with emphasis on the diverse solutions to the problem of design for survival and the evolutionary mechanisms that provide those solutions. Meets twice per week for two and one-half hours. Each meeting will include both lecture and laboratory experiences. (Offered as BI 432 prior to 1999-2000)

#### **BIOL 250 Principles of Microbiology**

2c-3l-3sh

**Prerequisite:** BIOL 111-112 or permission of instructor

A study of the structure, nutrition, and biochemical activities of microbes. A survey of viruses, blue-green bacteria, bacteria, algae, fungi, and protozoa and their diversity in natural environments. Course designed for biology and biology education majors.

#### **BIOL 251 Field Botany**

2c-31-3sh

**Prerequisites: BIOL 210** 

The collection, preservation, identification, and distribution of selected herbaceous and woody plants of Western Pennsylvania. Emphasis will be on taxonomic principles, the use of keys and manuals, and the recognition of local flora.

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#### **BIOL 252 Field Zoology**

2c-31-3sh

**Prerequisite: BIOL 220** 

Field natural history of vertebrates; identification, collection, and preservation techniques.

#### **BIOL 261 Ornithology**

2c-31-3sh

## Prerequisites: BIOL 111-112 or BIOL 103-104

A study of birds of the region. Indoor laboratory as well as early morning and possibly weekend field trips required.

#### **BIOL 262 General Entomology**

2c-31-3sh

**Prerequisite: BIOL 220** 

Morphology, anatomy, ecology, taxonomy, and economic and public health importance of insect orders, particularly those of Western Pennsylvania; student collection and field trips required.

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#### **BIOL 263 Genetics**

2c-31-3sh

**Prerequisite: BIOL** 111

Deals with the distribution and function of the hereditary material; special emphasis on microbial, viral, and molecular genetics.

#### **BIOL 269 Bioethics and Coevolution**

3c-01-3sh

A discussion and exploration of the coevolution of humans and nature. Areas covered include the concepts of coevolution, bioethics, resource utilization, and possible future lifestyles. Designed for majors and nonmajors.

#### **BIOL 271 Evolution**

3c-01-3sh

**Prerequisite:** <u>BIOL 111-112</u> or <u>BIOL 103-104</u>, <u>BIOL 263</u>

Historical development of evolutionary thought; evidence and operational mechanisms involved; origin and phylogenetic relationships of biological groups.

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#### **BIOL 272 Conservation of Plant and Animal Resources**

2c-31-3sh

Prerequisites: BIOL 111-112 or BIOL 103-104

A study of accepted practices in soil, water, forest, and wildlife conservation. Saturday field trips.

#### **BIOL 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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#### **BIOL 310 Applied Entomology and Zoonoses**

2c-31-3sh

**Prerequisite:** BIOL 220 or permission

A study of the measures for abatement or control of arthropods, rodents, birds, and other disease vectors of public importance; selection, chemistry, formulation, and safe application of insecticides, rodenticides, and fumigants; pesticiding equipment; application of biological and other measures of control.

## **BIOL 311 Environmental Biology**

3c-31-4sh

**Prerequisites:** Restricted to Elementary Education and Earth Science Education majors only

A laboratory and field course providing basic knowledge in biology and its practical implications. Physical and biological aspects of the environment are studied.

#### **BIOL 321 Environmental Protection I**

2c-31-3sh

**Prerequisites:** <u>BIOL 111</u>- <u>112</u>, <u>CHEM 112</u>, Environmental Health majors only or permission of instructor Considers the impact of important components of the physical environment on health and deals with principles and methods for identification, evaluation, and control of such health hazards. Major attention to principles and methods of epidemiological investigation. Major credit only for Environmental Health majors.

#### **BIOL 322 Environmental Protection II**

2c-3l-3sh

**Prerequisites:** <u>BIOL 111</u>- <u>112</u>, <u>CHEM 112</u>, Environmental Health majors only or permission of instructor Subjects receiving attention include water and food supplies, domestic and industrial sewage and wastes, housing, accidents, community air pollution, domestic and industrial poisons, ionizing radiations, occupational health hazards.

#### **BIOL 331 Animal Developmental Biology**

2c-31-3sh

**Prerequisite:** BIOL 220 or by permission

Comparative and molecular development of vertebrate animals are the major considerations. General principles of development are illustrated using vertebrate, invertebrate, and plant materials.

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### **BIOL 350 Cellular Physiology**

2c-31-3sh

Prerequisites: <u>BIOL 111</u>, <u>CHEM 231</u>

Topics include cell membrane systems, bioenergetics, and information processing systems as well as growth and differentiation of cells and their organelles. Complements plant and animal physiology and biochemistry.

## **BIOL 352 Comparative Animal Physiology**

2c-3l-3sh

Prerequisites: <u>BIOL 220</u>, <u>CHEM 231</u>

A comparative study of homeostatic mechanisms and systems in animals and their relation to fundamental chemical and physical events in cells.

#### Back to Top

#### **BIOL 362 Ecology**

2c-31-3sh

Prerequisites: BIOL 111-112, BIOL 210 or BIOL 220

A study of interrelations and adaptations of organisms; includes consideration of physical and biotic environmental factors. Field trips.

#### **BIOL 363 Medical Microbiology**

2c-31-3sh

**Prerequisites:** <u>BIOL 250</u> or permission

A study of disease caused by microorganisms with emphasis on human pathogens. Both epidemiology and aspects of host-parasite relationships will be discussed. Lab stresses methods of isolation and identification of pathogens.

#### Back to Top

#### **BIOL 364 Immunology**

2c-31-3sh

**Prerequisites:** <u>BIOL 250</u>, <u>CHEM 232</u>, or by permission

Physical and chemical properties of antigens and antibodies; nature of antigen-antibody interactions; mechanism of antibody formation; and immune reaction and disease. Lab employs serological techniques.

## **BIOL 401 Laboratory Methods in Biology and Biotechnology**

2c-4l-3sh

Prerequisite: <u>CHEM 351</u>

Theory and practice in a number of major analytical and preparative techniques currently in use in physiology, molecular biology, and biotechnology.

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## **BIOL 425 Herpetology**

2c-31-3sh

**Prerequisite: BIOL 220** 

A comprehensive survey of the classes Amphibia and Reptilia, including their classification, structure, origin, evolution, phylogenetic relationships, distribution, and natural history. Special emphasis is placed on the herpetofauna of Pennsylvania.

#### **BIOL 450 Pymatuning: Field Studies**

var-3sh

During the summer session, various field courses are offered through the Pymatuning Laboratory of Ecology. The offerings will vary depending on the summer. Some of the possible offerings include Experimental Design, Fish Ecology, Behavioral Ecology, Aquatic Botany, and Ecological Genetics. Information regarding specific offerings available from Biology Department in spring.

#### **BIOL 453 Plant Physiology**

2c-31-3sh

Prerequisite: BIOL 210, CHEM 231

Studies physiological processes occurring in plants considered in relation to growth, development, and ecology of plants.

#### **BIOL 463 Limnology**

2c-31-3sh

Prerequisite: **BIOL 362** 

An investigation into the physical, chemical, and biological aspects of inland waters and their interrelationships. In the laboratory the student will gain experience in the techniques involved in aquatic sampling and the analysis of data. (Saturday or Sunday labs may be required.)

## **BIOL 466 Principles of Virology**

3c-01-3sh

**Prerequisite:** BIOL 263 or equivalent course in Genetics, or CHEM 351 or equivalent course in Biochemistry, or permission of instructor

Topics include structure, classification, assay, and transmission of viruses; methods used in the study of viruses; viral replication, gene expression, and gene regulation; host-viral interactions and subviral pathogens.

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#### **BIOL 475 Mammalogy**

2c-31-3sh

**Prerequisite: BIOL 220** 

A general discussion of mammals emphasizing systematics, distribution, and structural and functional modifications related to evolution of this group. Lab work samples numerous techniques that can be applied to mammalian biology.

## **BIOL 476 Parasitology**

2c-31-3sh

Prerequisite: **BIOL 220** 

Structure, physiology, ecology, life cycles, pathology, and treatment of parasitic protozoa and flatworm and roundworm species of man. Dissection of hosts for parasites.

#### **BIOL 478 Mycology**

2c-3l-3sh

**Prerequisite:** BIOL 210

Involves a study of the systemics, morphology, and physiology of the kingdom Myceteae with emphasis on economically important and experimentally useful organisms.

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#### **BIOL 480 Biology Seminar**

1c-0l-1sh

A discussion of recent trends in biological thought and research. Students report on assigned readings and/or personal research.

### **BIOL 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Course varies from semester to semester covering diverse topics in specific areas of biology.

### **BIOL 482 Independent Study**

var-1-3sh

**Prerequisites:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office. A 2.5 GPA overall and in major courses required.

Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources. Work is supervised by a faculty member but does not involve regular class or laboratory hours.

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#### **BIOL 493 Biology Internship**

var-6-12sh

**Prerequisites:** Biology major with at least 57 semester hours, 2.5 overall QPA, and permission of the director of internships and the chairperson

Selected students have opportunity, under department supervision, to gain off-campus practical experience in area of interest. Only 6sh may be applied toward major; total number of semester hours will be decided in consultation involving student, his/her advisor, and director of internships.

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# Indiana University of Pennsylvania

2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# Chemistry

# **Department of Chemistry College of Natural Sciences and Mathematics**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

CHEM 101 CHEM 102 CHEM 111 CHEM 112 CHEM 113 CHEM 114 CHEM 116 CHEM 231 CHEM 232 CHEM 255 CHEM 281 CHEM 301 CHEM 321 CHEM 322 CHEM 323 CHEM 331 CHEM 335 CHEM 340 CHEM 341 CHEM 342 CHEM 343 CHEM 344 CHEM 351 CHEM 410 CHEM 411 CHEM 412 CHEM 421 CHEM 441 CHEM 481 CHEM 482 CHEM 493 CHEM 498

## CHEM 101 College Chemistry I

3c-21-4sh

Basic principles and concepts of inorganic chemistry are developed from the standpoint of atomic and molecular structure with illustrative examples from descriptive chemistry. The laboratory portion of the course illustrates physical and chemical properties in a qualitative and quantitative manner. Designed for selected majors within the College of Health and Human Services and to fulfill the Liberal Studies Natural Science Laboratory Sequence requirement.

#### CHEM 102 College Chemistry II

3c-21-4sh

**Prerequisite: CHEM 101** 

Basic fundamental principles and concepts of organic and biochemistry are developed. Deals primarily with structural features of organic compounds, the chemistry of functional groups, and practical examples and uses of organic compounds. The laboratory portion illustrates properties and reactions of representative organic compounds. Designed for selected majors within the College of Health and Human Services and to fulfill the Liberal Studies Natural Science Laboratory Sequence requirement.

#### **CHEM 111 General Chemistry I**

3c-31-4sh

A lecture-discussion of principles of chemistry, including theory and applications. The lab illustrates principles discussed. Topics discussed include scientific measurements, simple definitions and concepts, the mole, stoichiometry, gas laws, electronic structure of the atom, bonding, thermochemistry, and descriptive chemistry of the elements.

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#### **CHEM 112 General Chemistry II**

3c-31-4sh

**Prerequisite:** CHEM 111

A continuation of General Chemistry I. Topics discussed include the solid and liquid state, solutions, kinetics, equilibria, acids and bases, solubility equilibria, thermodynamics, electrochemistry, and descriptive chemistry of the elements.

#### **CHEM 113 Concepts in Chemistry**

3c-31-4sh

An introductory course for chemistry majors. Topics covered include atomic theory, an introduction to chemical

reactions, stoichiometry, thermochemistry, chemical bonding, molecular geometry, kinetic-molecular theory of gases, the liquid and the solid states, and solution theory.

## **CHEM 114 Basic Inorganic Chemistry**

3c-31-4sh

**Prerequisite:** CHEM 113

Topics include chemical kinetics, equilibrium and thermodynamics, acids and bases, electrochemistry, coordination chemistry, and descriptive chemistry of selected elements.

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#### **CHEM 116 Basic Inorganic Chemistry**

3c-31-2sh

Prerequisite: CHEM 111 and 112

Required for chemistry majors who have taken CHEM 111 and 112. A systematic study of the chemistry of the elements will be presented in both the lecture and the laboratory. Also included will be the chemistry of coordination compounds. This course starts at the beginning of the second half of the spring semester and is taught concurrently with CHEM 114.

### **CHEM 231 Organic Chemistry I**

3c-4l-4sh

**Prerequisite:** CHEM 112 or 114

A study of compounds of carbon, with special emphasis on structure-reactivity relationships. Laboratory work emphasizes methods of separation and purification of organic compounds.

## **CHEM 232 Organic Chemistry II**

3c-4l-4sh

**Prerequisite:** CHEM 231

A continuation of Organic Chemistry I with an introduction to spectroscopic techniques. Laboratory work emphasizes the synthesis of representative compounds.

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#### **CHEM 255 Biochemistry and Nutrition**

3c-01-3sh

**Prerequisite:** CHEM 102

For Family and Consumer Sciences Education majors; studies chemistry and biological function of biologically active compounds with respect to nutritional requirements.

#### CHEM 281 Special Topics

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

#### **CHEM 301 Chemistry Seminar**

1c-0l-1sh

A discussion of current technical literature and current research problems of staff. Lectures by outside chemists and student presentations. Open to junior or senior chemistry majors and to others by permission of the chairperson.

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## **CHEM 321 Quantitative Analysis**

3c-4l-4sh

**Prerequisite:** CHEM 112 or 114

Theory and practice of quantitative analysis, including gravimetric and volumetric analysis; special emphasis on perfecting student's laboratory techniques and application of general chemical knowledge through problem solving.

#### **CHEM 322 Instrumental Analysis**

3c-4l-4sh

**Prerequisite:** CHEM 341

Modern instrumental methods of chemical analysis. Student learns theory behind the instrument, principles of operation, interpretation of data obtained, and limitations of methods.

#### **CHEM 323 Analytical Methods**

3c-4l-4sh

**Prerequisites:** CHEM 112 and non-Chemistry major

Principles of precipitation, acid-base, oxidation-reduction, and equilibria are applied to problem solving and to laboratory determinations; instrumental methods of analysis, such as colorimetry, atomic absorption and flame emission, gas chromatography, etc.

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#### CHEM 331 Organic Molecular Structure Determination

4c-var-3sh

**Prerequisites:** CHEM 231-232 (CHEM 232 may be taken concurrently)

Gives the student experience in systematic identification of various classes of organic compounds by both chemical and physical methods.

## **CHEM 335 Advanced Organic Chemistry**

3c-01-3sh

Prerequisites: CHEM 232 and 341

Selected topics of current interest covered. Possible topics include reaction mechanisms, molecular spectroscopy, stereochemistry, natural products, heterocyclics, polymer chemistry, and organic synthesis.

#### CHEM 340 Physical Chemistry for the Biological Sciences

3c-01-3sh

**Prerequisites:** MATH 122 or 124 or 128, and PY112 or 132; CHEM 232

A one-semester course for Biochemistry and Biology majors. Chemical thermodynamics, equilibria, kinetics; quantum mechanics; and spectroscopy especially as applied to biomechanical systems.

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#### **CHEM 341 Physical Chemistry I**

4c-01-4sh

**Prerequisites:** MATH 122 or 124 or 128, and PY112 or 132; CHEM 112 or 114

Chemical thermodynamics with applications to solutions, phase, and chemical equilibria-kinetic theory.

#### **CHEM 342 Physical Chemistry II**

3c-01-3sh

Prerequisite: <u>CHEM 341</u>

A study of solids, liquids, surfaces, chemical kinetics, electrochemistry, atomic and molecular structure.

#### CHEM 343 Physical Chemistry Laboratory I

0c-3l-1sh

Prerequisites: CHEM 321, 341

Experiments illustrating application of fundamental laws to actual systems. Carries writing-intensive credit.

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## CHEM 344 Physical Chemistry Laboratory II

0c-31-1sh

Prerequisites: <u>CHEM 342</u>, <u>343</u>

An extension of Physical Chemistry Laboratory I; experiments related to chemical kinetics, molecular spectroscopy, and other topics of physical chemistry.

#### **CHEM 351 Biochemistry**

4c-01-4sh

**Prerequisite:** CHEM 231

A study of chemistry and biological functions of carbohydrates, lipids, proteins, minerals, vitamins, and hormones.

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## **CHEM 410 Advanced Inorganic Chemistry Laboratory**

0c-31-1sh

Prerequisite: CHEM 322

A laboratory course in which the techniques used in the synthesis and characterization of inorganic compounds will be explored. Emphasis will be placed on the preparation of a wide variety of inorganic compounds and the methods by which they are identified and characterized.

## **CHEM 411 Advanced Inorganic Chemistry**

3c-01-3sh

**Prerequisite:** CHEM 341

Gives understanding of advanced theories of atomic structure, chemical bonding, acids and bases, coordination compounds, and selected topics.

## CHEM 412 Advanced Structural and Synthetic Methods in Inorganic Chemistry

2c-2l-3sh

**Prerequisites:** CHEM 411 and either CHEM 410 or 322

Advanced techniques used in the synthesis and characterization of inorganic compounds will be explored. In lecture, emphasis will be placed on the theory and application of structural and spectroscopic methods of characterization. In lab, emphasis will be placed on advanced methods of synthesis and structural characterization using representative examples of important classes of inorganic compounds.

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#### **CHEM 421 Advanced Instrumental Analysis**

4c-var-3sh

**Prerequisite:** CHEM 322

A study of modern chemical analysis, using advanced instrumental techniques; emphasis on theory, principles of operation, capabilities, and limitations of advanced analytical instruments used.

#### **CHEM 441 Advanced Physical Chemistry**

3c-01-3sh

Prerequisite or corequisite: CHEM 342

A study of fundamental ideas of quantum and statistical mechanics, molecular structure, and other topics of current interest.

#### CHEM 481 Special Topics

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the

established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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## CHEM 482 Independent Study

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

## **CHEM 493 Internship in Chemistry**

var-4-9sh

Prerequisites: CHEM 113, 114, 231, 232, 321, 341, and departmental approval

Full-time involvement in an actual "on-the-job" situation in an industrial or research laboratory under the tutelage of a selected preceptor. A department faculty member will work closely with the student and preceptor and will assume responsibility for making the final evaluation and assigning a grade.

#### **CHEM 498 Problems in Chemistry**

var-1-2sh

**Prerequisite:** Permission of chairperson

A course of independent study on selected problems, including lab work, library reading, and conferences with staff member. A minimum of 4 hours per week required per credit.

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# Indiana University of Pennsylvania

2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# Geoscience

#### **Department of Geoscience**

**College of Natural Sciences and Mathematics** 

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

GEOS 101 GEOS 102 GEOS 103 GEOS 104 GEOS 105 GEOS 106 GEOS 111 GEOS 112 GEOS 113 GEOS 114 GEOS 121 GEOS 122 GEOS 131 GEOS 132 GEOS 141 GEOS 150 GEOS 151 GEOS 221 GEOS 281 GEOS 310 GEOS 321 GEOS 322 GEOS 325 GEOS 326 GEOS 327 GEOS 330 GEOS 331 GEOS 332 GEOS 336 GEOS 337 GEOS 338 GEOS 341 GEOS 342 GEOS 350 GEOS 361 GEOS 362 GEOS 371 GEOS 380 GEOS 411 GEOS 412 GEOS 440 GEOS 441 GEOS 480 GEOS 481 GEOS 482 GEOS 493

## **GEOS 101 The Dynamic Earth**

3c-01-3sh

**Prerequisite:** No Geoscience majors/minors

Examines the constant changes that affect the rocky surface of our planet. From volcanic eruptions and catastrophic earthquakes to the slow drift of continents and passage of ice ages, earth processes have shaped the history of life and altered the development of human civilization.

#### **GEOS 102 The Dynamic Earth Lab**

0c-21-1sh

**Prerequisite:** No Geoscience majors/minors **Corequisite:** Enrollment in GEOS 101

Introduces students to the techniques geologists use to study the earth and reconstruct its past. Labs cover minerals, rocks, map interpretation, fossil identification. Includes field trips during the scheduled lab period.

#### **GEOS 103 Oceans and Atmospheres**

3c-01-3sh

**Prerequisite:** No Geoscience majors/minors

The earth's oceans and atmosphere play a crucial role in determining the pace and extent of changes occurring to our global environment. Examines the composition and character of these components and their interaction with other major components of the earth system.

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#### **GEOS 104 Oceans and Atmospheres Lab**

0c-21-1sh

**Prerequisite:** No Geoscience majors/minors **Corequisite:** Enrollment in GEOS 103

Introduces students to the techniques oceanographers and meteorologists use to study the earth's oceans and atmospheres and reconstruct their evolution. Labs cover seawater processes, oceanic circulation, marine life, atmospheric structure, and weather.

#### **GEOS 105 Exploring the Universe**

3c-01-3sh

#### **Prerequisite:** No Geoscience majors/minors

Examines the history of time, the reasons for the seasons, the characteristics of the planets, moons, stars, and galaxies, and the history and future of space exploration.

#### **GEOS 106 Exploring the Universe Lab**

0c-21-1sh

**Prerequisite:** No Geoscience majors/minors **Corequisite:** Enrollment in <u>GEOS 105</u>

Introduces students to the techniques astronomers use to study the celestial sphere. Constellations, seasons, motions of Sun, Moon, planets, and stars, characteristics of stars and galaxies. Includes two observations which will be held at night.

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#### **GEOS 111 Earth Science for Educators I**

3c-01-3sh

Prerequisite: Natural Science/Science Education majors only

An in-depth treatment of introductory oceanography and geology designed specifically for Secondary Science Education majors. Focuses on fundamentals of the earth's physical processes and history and on the ocean's dynamics, chemistry, and tectonics.

#### **GEOS 112 Earth Science for Educators I Lab**

0c-31-1sh

**Prerequisite:** Natural Science/Science Education majors only

**Corequisite:** Enrollment in GEOS 111

Lab experiences in various aspects of oceanography and geology, designed to provide concepts and skills for future teaching to Secondary Education majors. Includes field trip(s).

#### **GEOS 113 Earth Science for Educators II**

3c-01-3sh

**Prerequisite:** Natural Science/Science Education majors only

An in-depth treatment of introductory meteorology and astronomy designed specifically for Secondary Science Education majors. Focuses on atmospheric processes and climate change and on the earth's place in the solar system and universe.

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#### **GEOS 114 Earth Science for Educators II Lab**

0c-31-1sh

**Prerequisite:** Natural Science/Science Education majors only

**Corequisite:** Enrollment in GEOS 113

Use of the weather station and planetarium highlights a series of exercises designed to aid Secondary Science Education majors in developing concepts and laboratory skills for future teaching.

## **GEOS 121 Physical Geology**

3c-01-3sh

**Prerequisites:** Geoscience majors/minors, any Science or Science Education majors/minors; Anthropology, Geography/Regional Planning majors, or permission of instructor

An introduction to the science of the earth, including physical properties of its interior and crust; its tectonic and surface processes; and the complex geologic interactions which shape and modify our planet. Designed to prepare students for upper-level geology classes.

## **GEOS 122 Physical Geology Laboratory**

0c-3l-1sh

Prerequisites: Geoscience majors/minors, any Science or Science Education majors/minors; Anthropology,

Geography/Regional Planning majors, or permission of instructor

**Corequisite:** Enrollment in GEOS 121

Selected problems in rock and mineral identification, topographic and geologic mapping techniques, geologic landforms and deformation structures. Designed to prepare students for upper-level geology classes. Includes field trips.

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## **GEOS 131 Historical Geology**

3c-01-3sh

Prerequisites: Geoscience majors/minors, any Science or Science Education majors/minors; Anthropology,

Geography/Regional Planning majors, or permission of instructor

An introduction to history of the earth, including the fossil record and the history of biologic evolution; the growth and tectonic interactions of oceans and continents; and the physical evolution of the earth's atmosphere, lithosphere, and hydrosphere. Designed to prepare students for upper-level geology classes.

## **GEOS 132 Historical Geology Laboratory**

0c-31-1sh

Prerequisites: GEOS 121/122, Geoscience majors/minors, any Science or Science Education majors/minors;

Anthropology, Geography/Regional Planning majors, or permission of instructor

**Corequisite:** Enrollment in GEOS 131

Selected problems in stratigraphic analysis, paleontology, and structural geology; designed to prepare students for upper-level geology classes. Includes field trips.

#### **GEOS 141 Introduction to Ocean Science**

3c-01-3sh

An introduction to physical, chemical, biological, and geological processes in oceanography and the interactions among them. Impact of exploitation of the oceans, coastal areas, marine, physical, and living resources on the environment and on humankind. Includes field trips which may involve a fee and may occur on weekends.

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#### **GEOS 150 Geology of National Parks**

3c-01-3sh

A study of geological processes and earth history as documented by the classical geological features of U.S. and Canadian national parks. Includes Badlands, Glacier, Grand Canyon, Great Smokies, Gros Morne, Mammoth Cave, Yellowstone, Yosemite, and others. Not open to Geoscience majors or minors.

#### **GEOS 151 The Age of Dinosaurs**

3c-01-3sh

A thorough introduction to dinosaurs and the world they inhabited. Topics include the most current theories regarding dinosaurian biology (behavior, metabolism, evolution), ecology (greenhouse climate, associated plants and animals), and extinction (asteroid impact, volcanism, climate change). Not open to Geoscience majors and minors.

## **GEOS 221 Physical Resources of the Earth**

3c-01-3sh

An introduction to mineral, energy, and water resources of the earth; genesis of ore depositions; exploration, exploitation, and utilization of resources; impact of exploitation of resources on the environment and on humankind. Includes field trips which may occur on weekends.

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#### **GEOS 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

#### **GEOS 310 Environmental Geology**

2c-31-3sh

**Prerequisite:** 8sh in geology or permission

The application of geologic information to the accommodation and reduction of natural hazards, to land-use planning, and to the utilization of earth materials. Includes field trips which occur on weekends.

#### **GEOS 321 Mineralogy**

2c-3l-3sh

**Prerequisite:** GEOS 121 or CHEM 111

Concerned with properties of minerals; introduction to crystallography and chemistry of crystals, followed by a determination of minerals and their probable genesis. Includes field trips which may occur on weekends.

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#### **GEOS 322 Igneous and Metamorphic Petrology**

2c-3l-3sh

**Prerequisite:** GEOS 321

Concerned with a description of igneous and metamorphic rock character based upon mineral components and physical relationship between mineral components of a rock. Includes field trips which may occur on weekends.

#### **GEOS 325 Structural Geology**

2c-31-3sh

**Prerequisites:** GEOS 131 and 132/133 or permission of instructor

The study of primary structures, contacts, rock mechanics, joints, faults, folds, foliation, and lineation. Includes work with geologic maps and structure sections. Brunton compass, orthographic and stereographic projections. Includes field trips which may occur on weekends.

#### **GEOS 326 Field Geology**

2c-31-3sh

**Prerequisite:** GEOS 325

Principles and techniques of field geology with emphasis on developing field skills using Brunton compass, aerial photographs, topographic maps, altimeter, Jacob staff, and rock color charts. Field projects involve techniques of field note-taking, measuring and describing stratigraphic sections, geologic field mapping and analysis, construction of geologic maps and structure sections, and report writing. Includes field trips which may occur on weekends.

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## **GEOS 327 Geomorphology**

2c-31-3sh

Prerequisites: GEOS 121, 131

A study of the origin of the earth's land forms, including relationship of geologic structure to landform types and role of geomorphic processes in landscape development.

## **GEOS 330 Paleontology**

2c-3l-3sh

Prerequisite: GEOS 131 or permission of instructor

The study of the morphology, evolution, geologic significance, and paleoecology of fossil organisms. Includes field trips which may occur on weekends.

## **GEOS 331 Hydrogeology**

2c-31-3sh

**Prerequisites:** MATH 121-122, GEOS 121-122/123, or permission

An overview of groundwater geology, including flow equations, graphical solutions to flow problems, and computer modeling of flow systems, as well as the geotechnical and social implications of groundwater utilization. Includes field trips which occur on weekends.

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#### **GEOS 332 Geochemistry**

2c-31-3sh

Prerequisite: CHEM 111-112, GEOS 121-122/123, or permission

An introduction to low-temperature chemistry of the earth's surface and near-surface; includes discussions of chemical activity, solution chemistry, organic geochemistry, trace elements, isotopes, and the chemistry of natural waters.

#### **GEOS 336 Geology of the Northern Rockies**

var-3sh

Prerequisite: Permission of instructor required; at least 14sh of GEOS courses recommended

A field study of the major geologic features and relationships involved in the development of the northern Rocky Mountains. National Park and Monument areas of South Dakota, Wyoming, and Montana are included among the areas investigated. (three weeks, summer only)

#### **GEOS 337 Geology of Newfoundland**

var-3sh

**Prerequisite:** Permission of instructor required; at least 14sh of GEOS courses recommended

A field course designed to utilize the exceptional and diverse geologic features of Newfoundland for instruction of departmental majors and minors in tectonic analysis utilizing sedimentologic, stratigraphic, and paleontologic observations. (three weeks, summer only)

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## **GEOS 338 Geology of the American Southwest**

var-3sh

**Prerequisite:** Permission of instructor required; at least 14sh of GEOS courses recommended

A field study of the major geologic features and relationships exposed in the American Southwest, including the Colorado Plateau, the Rio Grande Rift, Death Valley, and parts of the Southern Rocky Mountains. (3 weeks, summer only)

## **GEOS 341 Solar System**

2c-31-3sh

**Prerequisites:** MATH 121 and PHYS 111

Fundamentals of astronomy, with emphasis on observational methods, mechanics, and origin of the solar system and spatial relationship of the solar system to the other members of the universe.

#### **GEOS 342 Stellar Astronomy**

2c-31-3sh

**Prerequisites:** MATH 121 and PHYS 111

Fundamentals of astronomy, with emphasis on sun, stars, galaxies, the sidereal universe, and use of spectroscopy for gathering astronomical data.

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#### **GEOS 350 Operation of the Planetarium**

var-1sh

**Prerequisites:** GEOS 110, <u>341</u>, <u>342</u>, or permission of instructor

Designed to acquaint the student with methods of operation and repair of a Spitz A-3-P planetarium. Content includes topics suitable for lectures to various age groups. Student will write and present a demonstration program. Meets once a week with occasional evening observations.

## **GEOS 361 Physical Oceanography**

2c-31-3sh

**Prerequisites:** MATH 121 and PHYS 111 or permission of instructor

An introduction to physical, chemical, geological, and biological nature of ocean: topography, submarine geology, and bottom deposits. Includes field trip(s) which may occur on weekend(s).

#### **GEOS 362 Plate Tectonics**

2c-31-3sh

**Prerequisites:** PHYS 111-112 and a minimum of 20sh of geology

An introduction to formal theory of plate tectonics. Topics include magnetic anomalies, first motion studies, thermal structures of the plates, kinematics, crustal generation, sea floor spreading, collision, and subduction deformation.

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#### **GEOS 371 Meteorology I**

2c-31-3sh

**Prerequisite:** One year of physical science or physics

An introduction to meteorological sciences; composition and structure of the atmosphere; radiation principles; elementary thermodynamics and heat balance.

#### **GEOS 380 Research Techniques in Geoscience**

2c-01-2sh

**Prerequisite:** Second-semester junior standing (75 credits or permission of instructor)

For students majoring in some aspect of geoscience. Teaches students the techniques of geoscience research: defining a project; doing background research; proposing multiple working hypotheses and collecting evidence pertaining to each. Students will then write up their research in both abstract and professional manuscript format. Cannot be taken subsequent to GEOS 480.

#### **GEOS 411 Sedimentary Petrology**

2c-31-3sh

**Prerequisite:** GEOS 321 or permission of instructor

The study of sediments and sedimentary rocks with emphasis on interpreting ancient environments of deposition utilizing sieve analysis, hand lens, and petrographic microscope. Includes field trips which may occur on weekends.

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#### **GEOS 412 Stratigraphy**

2c-31-3sh

**Prerequisite:** GEOS 411 or permission of instructor

Principles and processes involved in development and description of stratified rock sequences, principles and problems of correlation, and selected stratigraphic problems. Includes field trips which may occur on weekends.

#### **GEOS 440 Subsurface Geology**

2c-3l-3sh

**Prerequisite:** Minimum 20 credit hours of geology

An introduction to the geology of petroleum, its origin, migration, entrapment, and production. Lab is designed to provide practical experience in subsurface mapping techniques and the use and evaluation of geophysical logging devices. Includes field trips which may occur on weekends.

#### GEOS 441 Carbonate Geology-Florida

var-3sh

Prerequisite: 17sh geology courses or written permission of instructor

Two to three weeks of field study in Florida Keys. Course will be conducted from base camp in Florida Keys and will consist of both land and water work as the different carbonate environments in the Keys, Florida Bay, and the Atlantic reef tract are studied.

#### **GEOS 480 Geoscience Seminar**

var-1sh

**Prerequisites:** <u>GEOS 380</u>, senior standing

For seniors majoring in some aspect of geoscience. The seminar (1) provides the student with an opportunity to prepare, formally present, and defend a scientific paper based either on his/her own research or on a topic chosen with the approval of instructor and (2) provides opportunity to discuss topics presented by other students, faculty, or guests.

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## **GEOS 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

It is the department's intention to use this course to schedule extended field trips and for teaching special courses which will utilize the specialties of the Geoscience faculty.

## **GEOS 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Independent study provides the student with an opportunity to use library, laboratory, or field research in an area which is of interest under the supervision of a designated faculty member. Approval is based on academic appropriateness and availability of resources.

## **GEOS 493 Geoscience Internship**

var-1-12sh

Summer or semester work experience with cooperating firms or agencies. May be scheduled only after consultation with advisor and chairperson. Requirements include up to three on-site consultations, depending on credit hours and location's site; completion of up to three oral progress reports; and submission of a detailed work diary. Restricted to junior and senior department majors; only 3sh may be applied toward major.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# **Physics**

#### **Department of Physics**

**College of Natural Sciences and Mathematics** 

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

PHYS 101 PHYS 111 PHYS 112 PHYS 121 PHYS 122 PHYS 131 PHYS 132 PHYS 141 PHYS 142 PHYS 151 PHYS 161 PHYS 222 PHYS 223 PHYS 231 PHYS 242 PHYS 281 PHYS 299 PHYS 322 PHYS 323 PHYS 331 PHYS 342 PHYS 350 PHYS 351 PHYS 352 PHYS 353 PHYS 355 PHYS 399 PHYS 432 PHYS 472 PHYS 473 PHYS 475 PHYS 476 PHYS 480 PHYS 481 PHYS 482 PHYS 490 PHYS 493

#### **PHYS 101 Energy and Our Environment**

3c-01-3sh

An overview of the areas of energy, transportation, and pollution. These topics are approached via the relevant concepts of physical science and physics. A nonlaboratory course for Liberal Studies requirements.

#### **PHYS 111 Physics I Lecture**

3c-01-3sh

**Prerequisites:** Elementary algebra and trigonometry

General college physics; mechanics, wave motion, and sound.

#### PHYS 112 Physics II Lecture

3c-01-3sh

**Prerequisite:** PHYS 111

Electricity and magnetism, heat, light, atomic and nuclear physics, and an elementary introduction to relativity and quantum theory.

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#### PHYS 121 Physics I Lab

0c-31-1sh

Corequisite: PHYS 111

Physics laboratory at level of Physics I; exercises in mechanics, wave motion, and sound.

# PHYS 122 Physics II Lab

0c-31-1sh

Corequisite: PHYS 112

Physics laboratory at level of Physics II; exercises in optics, electricity and magnetism, and radioactivity.

#### **PHYS 131 Physics I-C Lecture**

3c-01-3sh

**Prerequisites:** MATH 121, 123, or 127, at least concurrently

A calculus-based course in general college physics; topics covered are similar to those covered in Physics 111 but are treated in more depth through the use of calculus.

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# **PHYS 132 Physics II-C Lecture**

3c-01-3sh

**Prerequisites:** MATH 122, 124, or 128, at least concurrently

A continuation of Physics I-C; topics covered are similar to those covered in Physics II but are treated in more depth through the use of the calculus.

#### PHYS 141 Physics I-C Lab

0c-31-1sh

Corequisite: PHYS 131

Physics laboratory at same level as Physics I-C; exercises in mechanics, wave motion, and sound.

#### PHYS 142 Physics II-C Lab

0c-31-1sh

Corequisite: PHYS 132

Physics laboratory at same level as Physics II-C; exercises in optics, electricity and magnetism, and radioactivity.

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#### **PHYS 151 Medical Physics Lecture**

3c-01-3sh

Development of concepts and principles of physics with a strong emphasis as to their use and application in medical and other biophysical areas.

# **PHYS 161 Medical Physics Lab**

0c-31-1sh

**Corequisite: PHYS 151** 

Experiments dealing with applications of physical principles to the field of medicine. Practical experience with use of electronic equipment, chart recorders, etc., of type found in modern-day medicine will be introduced.

#### Back to Top

#### PHYS 222 Mechanics I

2c-01-2sh

**Prerequisites:** PHYS 111 or 131; MATH 122, 124, or 128

Dynamics of a particle in one, two, and three dimensions, central forces including planetary and satellite motion, energy in particle dynamics, statics, and systems of particles.

#### PHYS 223 Mechanics II

2c-01-2sh

Prerequisites: PHYS 222, MATH 241

Mechanics of a rigid body, constraints, oscillations, wave motion, introduction to Lagrangian and Hamiltonian formulation and relativistic mechanics.

# **PHYS 231 Electronics**

3c-31-4sh

**Prerequisites:** PHYS 112 or 132; MATH 122, 124, or 128

Circuit theory, transients, transistor circuits, frequency response, input and output impedance, feedback and electronic noise. Operational amplifiers and digital electronics.

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# **PHYS 242 Optics**

3c-01-3sh

**Prerequisites:** PHYS 112 or 132; MATH 122, 124, or 128

Geometrical optics and physical optics; including interference, diffraction, and polarization. Quantum optics is introduced.

### **PHYS 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

# PHYS 299 Cooperative Education I

var-1-3sh

**Prerequisites:** PHYS 132; completion of 30 credits with a minimum of 2.0 GPA and approval of the cooperative education coordinator

This program blends classroom theory with practical application through job-related experience. Students will work in positions offered by the participating industrial or federal/state work-study program employers under joint supervision of the Physics faculty and the on-site supervisor. A co-op student must be a full-time university student in good academic standing and be planning to return to campus for completion of his/her degree program. Evaluation requirements may include on-site visitations by the faculty/coordinator, consultation with the on-site supervisor, and a major progress report by the student or the presentation of a detailed oral report before the departmental cooperative education committee.

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#### PHYS 322 Electricity and Magnetism I

2c-01-2sh

**Prerequisite: PHYS 222** 

Electrostatic potential theory, dielectrics, dipole theory, magnetostatics, Maxwell equations for static fields, and Legendre's polynomials and other approximation methods.

#### PHYS 323 Electricity and Magnetism II

2c-01-2sh

Prerequisite: PHYS 322

Time-dependent form of Maxwell equations, electromagnetic induction, vector potential, magnetism, radiation fields, and Poynting vector.

#### **PHYS 331 Modern Physics**

3c-01-3sh

**Prerequisites:** PHYS 112 or 132; MATH 122, 124, or 128

An introduction to particle and wave properties of matter, atomic structure, relativity, solid state and nuclear physics.

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#### PHYS 342 Thermal and Statistical Physics

3c-0l-3sh

**Prerequisites:** PHYS 112 or 132; MATH 122, 124, or 128

Thermometry, laws of thermodynamics, low-temperature physics, entropy, properties of ideal gas, and an introduction to statistical mechanics.

#### PHYS 350 Intermediate Experimental Physics I

0c-61-3sh

**Prerequisites:** PHYS 242 and 331

Required fundamental experiments in areas of mechanics, optics, modern physics, and heat.

#### PHYS 351 Intermediate Experimental Physics II

0c-6l-3sh

**Prerequisite:** PHYS 350

Increasingly sophisticated experiments in essential areas of physics. Digital computers and the Van de Graaff are available.

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#### **PHYS 352 Applied Physics Laboratory**

0c-6l-3sh

Prerequisites: PHYS 231, 355, or permission of instructor

The student is introduced to much of the fundamental equipment used in industry. The student is trained in the operation and proper use of this equipment through a series of experiments that teach him/her signal detection and analysis including data acquisition by computer. The student will receive instruction on the proper methods to be used for various oral and written presentations.

#### PHYS 353 Solid State Electronics Laboratory

0c-6l-3sh

**Prerequisite:** PHYS 352 or permission of instructor

The student will encounter a number of areas of current interest in semiconductor technology. The student will perform experiments and learn skills in such areas as device process simulation, device simulation, measurements of semiconductor materials, and measurement of device parameters. The student will also be instructed in the proper presentation of written and oral reports.

#### **PHYS 355 Computer Interfacing**

2c-21-3sh

**Prerequisite:** COSC 110

Designed to teach the fundamentals of interfacing the personal computer to its physical surroundings. The students will learn how to collect data and to control experiments in real time. They will learn how to use digital to analog conversion (DAC) techniques and analog to digital conversion (ADC) techniques. They will also use a graphical software package (such as LabVIEW) to design icon-based interfacing tools, to learn how to use virtual instruments, and to analyze data. (Offered as PY150: Computer Applications to Physics Laboratories prior to 1997-98)

#### **PHYS 399 Cooperative Education II**

var-1-3sh

**Prerequisites:** PHYS 299; PHYS 350; completion of eighty credits with a minimum of 2.5 GPA and approval of the cooperative education coordinator

A second course in cooperative education. Includes instruction that builds upon learning experiences in college by combining and correlating them with learning experiences at the training station to meet the student's career goals. Evaluation requirements may include on-site visitations by the faculty/coordinator, consultation with the on-site supervisor, and a major progress report by the student or the presentation of a detailed oral report before the departmental cooperative education committee. No more than 3sh of PHYS 299, PHYS 399, and/or PHYS 493 may be used in fulfilling physics major course requirements.

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# **PHYS 432 Advanced Electronics**

2c-3l-3sh

**Prerequisite: PHYS 231** 

Digital measurement, switching circuits, logic circuits, counting, coding, input and output, AD and DA converters, computer organization.

# **PHYS 472 Nuclear Physics**

3c-01-3sh

**Prerequisite: PHYS 331** 

A survey of nuclear physics, nuclear size, nuclear mass, reaction theory, types of radioactive decay, nuclear models, nuclear forces, and elementary particles.

#### PHYS 473 Quantum Mechanics I

4c-01-4sh

Prerequisites: PHYS 222, and 331

Quantum mechanics following methods of Schrodinger and Heisenberg; the theory is applied to properties of harmonic oscillator, hydrogen atom, electron in a magnetic field, and radioactive decay of alpha particles.

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#### PHYS 475 Physics of Semiconductor Devices I

3c-01-3sh

Prerequisites: PHYS 231, PHYS 242, PHYS 342, or permission of instructor

Develops the basic foundation for a study of the theory of semiconductors. Elementary quantum concepts, the band theory of solids, electrical properties of solids, effective mass theory, and principles of semiconductor devices are discussed.

# PHYS 476 Physics of Semiconductor Devices II

3c-01-3sh

**Prerequisite:** PHYS 475 or permission of instructor

Discusses the physics and operation of a number of discrete devices including: bipolar transistors, MOSFETS, JFETS, CCDs, various diode technologies, photovoltaic and photoconductive devices, solid-state lasers, and light-emitting diodes.

#### PHYS 480 Seminar

var-1sh

Speakers from within and outside the university conduct a seminar on a weekly or biweekly basis on different topics of interest in the physics community.

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#### **PHYS 481 Special Topics in Physics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Varies from semester to semester and covers diverse topics in specific areas of physics. This course number is also used to offer courses under development.

#### **PHYS 482 Independent Study in Physics**

var-1-6sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources. Work is supervised by a Physics faculty member but does not necessarily involve regular lecture or laboratory hours.

# PHYS 490 Solid State Physics

3c-01-3sh

Prerequisites: PHYS 223 and 331

Reciprocal lattice, crystal structure, the quantization of fields to produce quasi-particles such as phonons, magnons, excitons. Fermi gas of electrons, energy bands, semiconductor crystals, and photoconductivity.

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# **PHYS 493 Internship in Physics**

var-1-3sh

**Prerequisites:** PHYS 350; completion of ninety credits with a minimum of 2.5 GPA and approval of the internship education coordinator

A supervised professional work-experience in physics and applied physics. Location, duties, internship, and hours are individually tailored to the student's career goals. A maximum of 3sh of internship in the student's major may be applied toward the physics major area elective requirements. Additional internship credit must be used as free electives. Evaluation requirements include on-site visitations by the faculty/coordinator, consultation with the on-site supervisor, and a major progress report by the student or the presentation of a detailed oral report before the departmental internship education committee.

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# **Science**

#### **College of Natural Sciences and Mathematics**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

#### <u>SCI 101 SCI 102 SCI 103 SCI 104 SCI 105 SCI 106 SCI 281 SCI 481 SCI 482</u>

# **SCI 101 Fundamentals of Physics**

2c-21-2.5sh

**Prerequisite:** Elementary Education major or instructor permission

A conceptual course in physics for Elementary Education majors. High school physics is not a prerequisite. Class and lab presentations concentrate upon dispelling naive concepts and developing a better understanding and appreciation of the physical world. The topics of motion, heat, light, sound, electricity, magnetism, and the nucleus are presented in context with our everyday experiences. Does not fulfill the Liberal Studies requirement except for majors in Elementary and Early Childhood Education.

#### **SCI 102 Fundamentals of Chemistry**

2c-21-2.5sh

**Prerequisite:** Elementary Education major or instructor permission

A survey of chemical principles and concepts. The nature of chemical reactions as applied to technology and its applications to society. The world of consumer chemistry will be explored. The goal is to develop a chemical literacy for the student. A series of laboratory exercises develops concept understanding and process skills. Some individual and group projects will be included. Does not fulfill the Liberal Studies requirement except for majors in Elementary and Early Childhood Education.

#### SCI 103 Fundamentals of Earth and Space Science

2c-21-2.5sh

Prerequisites: <u>SCI 101</u>, <u>SCI 102</u>

An introduction to geology, astronomy, oceanography, and meteorology for Elementary Education majors. Emphasis is placed on the understanding of large-scale processes and how the earth, solar system, and universe work. Lab experiences include hands-on work with earth materials and with instruments from all of our subjects, map, and field trips which may occur during class times, nights, and weekends. Does not fulfill the Liberal Studies requirement except for majors in Elementary and Early Childhood Education.

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#### SCI 104 Fundamentals of Environmental Biology

2c-21-2.5sh

Prerequisites: SCI 101, SCI 102

A basic introduction to the major concepts and principles of ecology and their application to modern living for majors in Elementary and Early Childhood Education.

#### SCI 105 Physical Science I

3c-2l-4sh

A descriptive and conceptual course in physics for the non-Science major. High school physics is not a prerequisite. Content is designed to develop an understanding and appreciation of the physical world around us, to produce changes in attitude and background essential for our modern society, and to clarify the following topics: motion, heat, sound, light, electricity, magnetism, and the structure of matter.

#### SCI 106 Physical Science II

3c-21-4sh

A basic course in environmental and consumer chemistry for the non-Science major. High school chemistry is not a prerequisite. Major topics include humankind's use and abuse of soil, water, air, and energy resources, global food production and hunger, the nuclear industry, and the threat of nuclear war. Consumer topics include vitamins and nutrition, food additives, pesticides, and drugs.

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#### **SCI 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

#### **SCI 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

#### **SCI 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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# **Anthropology**

# **Department of Anthropology College of Humanities and Social Sciences**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

ANTH 110 ANTH 211 ANTH 213 ANTH 222 ANTH 233 ANTH 244 ANTH 271 ANTH 272 ANTH 273 ANTH 274 ANTH 281 ANTH 286 ANTH 314 ANTH 315 ANTH 316 ANTH 317 ANTH 318 ANTH 320 ANTH 340 ANTH 350 ANTH 360 ANTH 365 ANTH 401 ANTH 415 ANTH 420 ANTH 444 ANTH 456 ANTH 480 ANTH 481 ANTH 482 ANTH 483 ANTH 493

# **ANTH 110 Contemporary Anthropology**

3c-01-3sh

An introduction to the nature of anthropological inquiry. By using the anthropological perspective, current relevant topics will be discussed. Topics could include, but are not limited to, changing myths and rituals, legal anthropology, cross-cultural aspects of aging, gender roles, evolutionism and creationism, cultural extinction, and world hunger.

#### **ANTH 211 Cultural Anthropology**

3c-01-3sh

Explores the nature of culture as a human survival technique. Provides a framework for appreciation and understanding of cultural differences and similarities in human societies, past and present.

#### **ANTH 213 World Archaeology**

3c-01-3sh

A survey of the prehistory of Western and non-Western cultures with emphasis on the development of technology and on the evolution of adaptive strategies with particular attention to the origins of agriculture. Exposes the students to the diversity of past cultural systems and to the methodological and theoretical questions of concern to archaeologists.

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#### **ANTH 222 Biological Anthropology**

3c-01-3sh

An introduction to the goals and techniques of biological anthropology with emphasis on primatology, paleoanthropology, genetics, and osteology. Provides a basis for evaluating the role of biology in human behavior.

#### **ANTH 233 Language and Culture**

3c-01-3sh

Focuses on social and cultural functions of language. Particular emphasis given to problems in anthropology with respect to non-Western languages.

# **ANTH 244 Basic Archaeology**

3c-01-3sh

An introduction to the goals and methods of anthropological archaeology with particular attention to the analysis of cultural chronology, past lifeways, and cultural process. Provides laboratory experience with artifacts and other archaeological data.

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#### **ANTH 271 Cultural Area Studies: Africa**

3c-01-3sh

Explores the cultural diversity of the continent of Africa. The first unit examines the historical processes which shape modern society, including the formation of indigenous African empires, the evidence for trade routes, slave trading, and colonialism. The second unit examines the nature of African traditional societies, including analyses of forager and agricultural groups. The last unit covers issues of contemporary development in Africa such as famine and agricultural policy, the status of women in economic development, and apartheid. Reading includes ethnographic and historical accounts of African society as well as selections by African writers on the issues of contemporary society. (Also offered as SOC 271; may not be taken for duplicate credit.)

#### **ANTH 272 Cultural Area Studies: China**

3c-01-3sh

Designed to assist the student in developing an understanding of contemporary China. While the course will begin with prehistoric and historic aspects of China, the focus will be on contemporary issues presented in the context of anthropological theory. Specific Chinese cultural components that will be investigated include values, attitudes, norms, social organization, linguistics, and folklore. (Also offered as SOC 272; may not be taken for duplicate credit.)

#### ANTH 273 Cultural Area Studies: Southeast Asia

3c-01-3sh

An introduction to the peoples and cultures of Southeast Asia. Prehistory and the development of indigenous states in the area and analysis of impact of world religions, such as Islam, and Western colonialism. Also examines modern hunter-gatherer and farming societies and discusses contemporary issues in social and economic change, including the Green Revolution, tropical deforestation, the struggle of ethnic minority tribal peoples, and the plight of Indochinese refugees. (Also offered as SOC 273; may not be taken for duplicate credit.)

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#### **ANTH 274 Cultural Area Studies: Latin America**

3c-01-3sh

An introduction to the peoples and cultures of Latin America. Focuses on the prehistory and development of pre-Columbian complex societies in Mesoamerica and the Andes and analyzes the impact of European colonialism on these major regions. Also examines contemporary issues, such as civil wars, economic development, rural-urban migrations, and migration and immigration of Latin American peoples into the United States. (Also offered as SOC 274; may not be taken for duplicate credit.)

#### **ANTH 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

#### ANTH 286 Marriage, Kinship, and the Family

3c-01-3sh

A sociological and anthropological study of patterns of marriage, kinship, and family life, with emphasis on the relationship between family patterns and other social institutions. Topics covered include the family and marriage in historical and comparative perspective; worldwide patterns of gender stratification; incest and incest avoidance; class and race contexts of family patterns; mate selection and love; parenthood and child rearing; domestic and sexual

violence; alternative family lifestyles; and the current crisis and possible future of the family. Intended for a broad audience but also open to sociology and anthropology majors and minors. (Also offered as SOC 286; may not be taken for duplicate credit.)

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#### **ANTH 314 Native Americans**

3c-01-3sh

A survey of culture history and culture area characteristics of the Indians of North America. Detailed study of representative groups related to historical, functional, and ecological concepts.

#### **ANTH 315 North American Archaeology**

3c-01-3sh

**Prerequisite:** ANTH 110 or 244 or permission of the instructor

A survey of North American prehistory with emphasis on cultural ecology and technology. Attention is given to all geographic areas north of Mexico, but the focus is on the Eastern Woodlands.

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#### **ANTH 316 Anthropology of Religion**

3c-01-3sh

**Prerequisite:** ANTH 110 or 211

Explores nature, function, and universal characteristics of religion in human society by utilizing cross-cultural approach. Theories concerning religious phenomena serve as topics for discussion.

#### ANTH 317 Archaeology Research Design and Analysis

3c-01-3sh

Prerequisite: ANTH 244 or permission of the instructor

An introduction to theory and method in archaeological research through lecture, laboratory exercises, and individual projects. Provides students with actual experience analyzing and interpreting archaeological data sets.

#### **ANTH 318 Museum Methods**

3c-01-3sh

Prerequisite: ANTH 110 or 211 or 244

Lecture and laboratory course surveying the role of museums as social and educational institutions, types of museums, museum administration, and museum architecture. Procedures for collection, curation, preservation, and storage of anthropological and natural history specimens examined.

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#### **ANTH 320 Archaeological Field School**

var-6sh

**Prerequisite:** ANTH 110, 244, or permission of instructor

An introduction to archaeological survey, field excavation, and laboratory processing. Field school students participate in one or more of the ongoing research projects of the IUP Archaeology Program.

# **ANTH 340 Anthropology of Aging**

3c-01-3sh

Introduces the student to various experiences faced by elderly people in numerous world societies. Explores the impact of such factors as ethnicity, nationality, race, and class and the processes of cultural change on the lives of people growing old. Comparative, cross-cultural perspectives will be stressed.

#### **ANTH 350 Anthropology of Women**

3c-01-3sh

Designed for any student with an interest in the lives of women around the world, regardless of whether or not he or she has a strong background in anthropology. Examines the social roles, rights, and responsibilities of women crossculturally, viewing both women's productive (economic) functions as well as reproductive functions. Reading describes the position of women in technologically simple societies and addresses the comparative position of women in the industrialized socialist and capitalist countries. The central theme of the course is an examination of how the position of women changed in the twentieth century.

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# **ANTH 360 Applied Anthropology**

3c-01-3sh

Applied anthropology focuses on the anthropologist as an agent of social change and bridges the gap between theories of cultural behavior and the policies which affect contemporary cultures. Examines the historical role of anthropologists in early public administration and then examines at length the work of contemporary applied anthropologists in programs of international economic development (health, agriculture, and education), in domestic human service planning and delivery, in cultural resource preservation, and in their role as advocates for unempowered minorities.

#### **ANTH 365 Native North American Religions**

3c-01-3sh

An introduction to the indigenous religions of North America and to the peoples who practice these rich and varied approaches to the sacred. This course not only examines major religious themes and dimensions (myth, ritual, ethics, etc.) but includes a historical perspective on North American Indian lifeways. This perspective involves discussion of the clash with Euro-American values and contemporary native religious responses to social crisis and change. (Also offered as RLST 365; may not be taken for duplicate credit)

# **ANTH 401 Social and Cultural Change**

3c-01-3sh

Prerequisite: ANTH 110 or SOC 151

An exploration of current theoretical perspectives on social and cultural change. Special attention given to planned change at the local or regional level.

# **ANTH 415 Cultural Resource Management**

3c-01-3sh

**Prerequisite:** ANTH 244 or consent of the instructor

Provides an understanding of how cultural resources are being preserved and managed under current American laws and regulations with particular emphasis on historic properties, such as historic buildings and archaeological sites. Case studies and field trips are incorporated so that students gain a thorough understanding of key problems and issues in historic preservation and cultural resource management.

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# **ANTH 420 Cultural Ecology**

3c-01-3sh

**Prerequisite:** ANTH 110 or 211

Introduces the student to the field of ecological anthropology by exploring the concept of the ecosystem in relationship to varying human adaptive strategies. Illustrates the importance of understanding man-environment interactions both in studying the developing world and in investigating the past.

### **ANTH 444 Medical Anthropology**

3c-01-3sh

**Prerequisite:** 9sh in ANTH or permission

Focuses on the study of human confrontation with disease and illness and on the adaptive arrangements made by various human groups for dealing with these dangers. Health and disease are viewed from a broad array of micro and macro perspectives, e.g., evolutionary, ecological, and psychosocial. Designed for nursing and social work students as well as social and biological sciences students.

#### ANTH 456 Field Research Methods

3c-01-3sh

**Prerequisite:** 9sh in ANTH

An examination of methods and practice of sociology and anthropology in the areas of qualitative and quantitative methods. Concentrates upon the development of field notes, interviewing techniques, participant observation, etc. Qualitative methods of sampling and analysis will include theoretical sampling and analytic induction. Brief background research into community, organizational, and group structure will also be emphasized.

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#### **ANTH 480 Anthropology Seminar**

var-1-3sh

**Prerequisite:** 9sh in ANTH

A seminar approach to the integration of the fields of anthropology. Designed to assist the advanced student in understanding the nature of anthropology, the major theoretical issues, and the history of intellectual development.

#### ANTH 481 Special Topics in Anthropology

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

#### **ANTH 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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#### **ANTH 483 Readings in Anthropology**

var-1-3sh

Directed readings on special topics in anthropology. Instructor guides selection of readings.

#### **ANTH 493 Internship in Anthropology**

var-3-12sh

**Prerequisite:** Permission of the instructor

Designed to offer students practical experience in any of the specialized fields of anthropology (physical, social-cultural, archaeology, or linguistics). Each student develops objectives in consultation with a particular departmental faculty member who is supervising the internship. Detailed field notes and a major paper based on the experience are required.

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# Criminology

# **Department of Criminology College of Humanities and Social Sciences**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

CRIM 101 CRIM 102 CRIM 210 CRIM 260 CRIM 270 CRIM 281 CRIM 283 CRIM 291 CRIM 295 CRIM 300 CRIM 306 CRIM 355 CRIM 357 CRIM 361 CRIM 370 CRIM 371 CRIM 383 CRIM 386 CRIM 388 CRIM 390 CRIM 391 CRIM 400 CRIM 401 CRIM 416 CRIM 451 CRIM 470 CRIM 480 CRIM 481 CRIM 482 CRIM 491 CRIM 493

# **CRIM 101 Crime and Justice Systems**

3c-01-3sh

Introduces the field of criminology through the examination of historical data, statistical information, theories of criminal causation, social control of behavior, development of laws, evaluation of criminal justice system policies, procedures, and trends. Students will learn the terminology of the field, gain an awareness of the methods of inquiry utilized in the field, and have the opportunity to examine personal attitudes and values regarding crime and responses to crime.

#### **CRIM 102 Survey of Criminology**

3c-01-3sh

Provides an understanding of the discipline of criminology through an examination of its theories, basic assumptions, and definitions.

#### **CRIM 210 Criminal Law**

3c-01-3sh

A study of the history and sources of criminal law coupled with an analysis of the substantive elements of specific crimes.

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#### **CRIM 260 Criminal Procedure and Admissibility of Evidence**

3c-01-3sh

Law of arrest, search, and seizure, with discussion of important case law. Analysis of safeguards established for protection of individual liberties.

#### **CRIM 270 Juvenile Justice System**

3c-01-3sh

A study of the agencies and processes dealing with juvenile justice in the United States.

# **CRIM 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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#### **CRIM 283 Police Patrol Administration**

3c-01-3sh

The study of the role and characteristics of the police patrol function. Special emphasis is given to understanding how patrol relates to other police functions and its effect on crime.

#### **CRIM 291 Theory and Techniques of Interviewing**

3c-01-3sh

Consideration of the theory, nature, methods, and principles of interviewing.

#### **CRIM 295 Criminal Investigation**

3c-01-3sh

The study of logical and scientific principles necessary for the detection and investigation analysis of criminal activities. Theories of information, interrogation, observation and interrogation, and observation and ethics are among the topics to be discussed.

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#### **CRIM 300 Theory of Complex Criminal Justice Organizations**

3c-01-3sh

**Prerequisite:** CRIM 102 or permission of instructor

The study of the evolution and theories of organizational alternatives and their application to the administration of justice.

## **CRIM 306 Criminological Research Methods**

3c-01-3sh

**Prerequisite:** CRIM 102 or permission of instructor

An introduction to the basic criminological research methods designed to prepare the student to understand and participate in quantitative and qualitative research.

#### **CRIM 355 Crime in the Workplace**

3c-01-3sh

The study of the theoretical and legal basis of crime in the workplace.

#### CRIM 357 Law, Social Control, and Society

3c-01-3sh

The evolution and development of the modern legal system. Topics include civil, criminal, and administration law, the legal profession, legal systems in American society, and the law as one of many instruments of social control and social change.

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#### **CRIM 361 Juvenile Law**

3c-01-3sh

An analysis of pertinent juvenile law and procedure involving case study methods.

#### **CRIM 370 Correctional Institutions**

3c-01-3sh

An examination of the organization and function of correctional institutions. Emphasis is placed on various social processes and problems associated with incarceration.

#### Back to Top

#### **CRIM 371 Community-Based Corrections**

3c-01-3sh

A survey of noninstitutional programs, focusing on alternatives to incarceration in community settings. Programs reviewed include prerelease, probation, parole, halfway houses, and restitution-based programs.

#### **CRIM 383 Police Administration**

3c-01-3sh

A study of police management, structure, and operations and their roles in the quality of services delivered. The relationship between police administration and its social environment will be examined.

#### **CRIM 386 Correctional Administration**

3c-01-3sh

A study of correctional management, structures, and operations and their roles in the quality of services delivered. The relationship between correctional administration and its social environment.

#### Back to Top

# **CRIM 388 Court Administration**

3c-01-3sh

A study of court responsibility within the criminal and civil justice systems; jurisdictions, policies, and management procedures in court administration.

#### **CRIM 390 Women and Crime**

3c-01-3sh

A study of the nature and extent of women's crime, theories of female criminality, processing of women offenders through the criminal justice system, the response of police and court officials to women as victims of crime, and opportunities for women as employees in criminal justice agencies.

#### **CRIM 391 Substance Use and Abuse in Criminal Justice**

3c-01-3sh

A study of substance use and abuse confronting American society. Alcohol and drug use and abuse education, philosophy, physiological effects, and social aspects will be examined in terms of control measures and public safety.

# Back to Top

### **CRIM 400 Theoretical Criminology**

3c-0l-3sh

A review and critical analysis of the major criminological theories beginning with the Classical School; psychological, sociological, economic, biological, and political theories of crime and its causes will be included.

#### **CRIM 401 Contemporary Issues in Criminology**

3c-01-3sh

An examination of the nature and extent of crime in modern Western society. Emphasis will be placed on issues

selected from, but not limited to, emerging patterns of violence, organized crime, white collar crime, victimless crime, corruption, and those crime control strategies deemed appropriate in a democracy.

# **CRIM 416 Criminal Justice Personnel and Supervision**

3c-01-3sh

A study of public personnel systems with specific application to criminal justice agencies. The role and function of supervision as a concept of a comprehensive personnel system as well as the relationship between agency personnel and the impact on crime will be examined.

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#### CRIM 451 Etiology of Delinquent Behavior

3c-01-3sh

An analysis of the prevalent theories of delinquency causation with a view toward developing prevention, control, and treatment approaches.

#### **CRIM 470 Comparative Study of Justice**

3c-01-3sh

Comparison of American systems of administration of justice with those of other nations.

# CRIM 480 Seminar in Criminology - The Administration of Justice

3c-01-3sh

A study of selected topics in criminology—the administration of justice. May be taken more than once for a maximum of 6sh. Not for credit after prior CRIM 480.

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#### **CRIM 481 Special Topics in Criminology**

var-1-3sh

**Prerequisite:** Department consent

A seminar providing study of selected topics not emphasized in other courses. May be taken more than once to a maximum 6sh.

#### **CRIM 482 Independent Study in Criminology**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

#### **CRIM 491 Individual and Group Treatment Modalities**

3c-01-3sh

A study of the therapeutic techniques, process, and application used in various criminal justice environments.

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#### **CRIM 493 Internship**

var-3-12sh

A structured field placement designed to broaden the student's educational experience through observation and participation in work assignments in government or private sectors. 6sh of credit can be applied to the major requirements.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# **Economics**

# **Department of Economics College of Humanities and Social Sciences**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

ECON 101 ECON 121 ECON 122 ECON 241 ECON 281 ECON 283 ECON 325 ECON 326 ECON 330 ECON 331 ECON 332 ECON 333 ECON 334 ECON 335 ECON 336 ECON 339 ECON 345 ECON 345 ECON 346 ECON 350 ECON 351 ECON 355 ECON 356 ECON 360 ECON 371 ECON 372 ECON 373 ECON 383 ECON 421 ECON 422 ECON 480 ECON 481 ECON 482 ECON 493

#### **ECON 101 Basic Economics**

3c-01-3sh

Scarcity, role of prices in determining production and the allocation of resources, business cycle analysis, policy options for reducing unemployment and inflation, economic role of government, international trade, and selected current economic problems are studied. For those who do not plan to take more than 3sh of economics. Note: May not be taken after successful completion of or concurrent registration in any other Economics course.

# **ECON 121 Principles of Economics I**

3c-01-3sh

Nature and methodology of economics; mixed capitalism and market economy; national income; employment theory, including economics of fiscal policy; money, banking, and Federal Reserve System; international trade and finance.

# **ECON 122 Principles of Economics II**

3c-01-3sh

Economics of the firm; theory of consumer demand; determination of price and output in different market structures; distribution of income; economic growth.

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#### **ECON 241 Contemporary Economic Issues**

3c-01-3sh

Prerequisite: ECON 101 or 122

A rigorous but nontechnical analysis of a variety of economic problems and a formulation and evaluation of possible corrective policies.

#### **ECON 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

#### **ECON 283 Environmental Economics**

3c-01-3sh

**Prerequisite:** ECON 101 or 122

An examination of economic costs and benefits of environmental control and modification. Techniques of economic analysis are used to understand economic aspects of environmental problems and contribute toward their solution.

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#### **ECON 325 Monetary Economics I**

3c-01-3sh

Prerequisites: ECON 121, 122

Organization, operation, and economic significance of U.S. monetary institutions; commercial banks and Federal Reserve System; survey of monetary theory and policy; mechanism of international payments.

#### **ECON 326 Monetary Economics II**

3c-01-3sh

Prerequisite: ECON 325 or permission of the instructor

Detailed study of monetary theory; tasks of central banking; principal objectives of monetary policy; intensive study of recent monetary experience; complementary and competing aims of monetary and fiscal policy.

#### **ECON 330 Labor Economics**

3c-01-3sh

Prerequisites: ECON 121, 122

History, structure, and operation of trade unions and employer organizations; major federal labor legislation; collective bargaining theory; wage determination; current labor problems.

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## **ECON 331 Economic Organization of Industry**

3c-01-3sh

**Prerequisite:** ECON 122 or permission of the instructor

Social effectiveness of industries analyzed through measures of market structure, market conduct, and market performance.

#### **ECON 332 Government and Business**

3c-01-3sh

**Prerequisite:** ECON 122 or permission of the instructor

An analysis of the antitrust laws focusing on the maintenance of competition, the prohibition of unfair business conduct, and the achievement of desirable economic performance.

# **ECON 333 Regulation of Industry**

3c-01-3sh

Prerequisites: ECON 121, 122 or permission of the instructor

Examines the theory and practice of regulation, emphasizing effects of regulation on economic performance and efficiency in the U.S.

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#### **ECON 334 Economics of Corporate Decisions**

3c-01-3sh

Prerequisites: ECON 121, ECON 122, MATH 121 or equivalent

Applications of economic theory using algebra, elementary statistics, and calculus to solve managerial optimization problems including problems of forecasting and risk.

#### **ECON 335 Public Finance**

3c-01-3sh

**Prerequisites:** ECON 121, 122 or permission of the instructor

Taxation and expenditure theory at the federal level; federal budget and debt considerations; public sector impact upon economy.

#### **ECON 336 State and Local Finance**

3c-01-3sh

**Prerequisite:** ECON 122 or permission of the instructor

An analysis of character and impact of state and local government revenue sources, expenditures, and fiscal systems; intergovernmental fiscal relations.

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#### **ECON 339 Economic Development I**

3c-01-3sh

Prerequisites: ECON 121, 122

Theory of growth; theory of economic development of underdeveloped countries.

#### **ECON 343 History of the Economic Development of the United States**

3c-01-3sh

Prerequisite: ECON 101 or 121 or 122

Applications of economic theory and models of economic development to the main patterns of U.S. postrevolutionary growth; emphasizes the history of economic development as a laboratory for testing economic hypotheses.

#### **ECON 345 International Trade**

3c-01-3sh

**Prerequisites:** ECON 121 and 122 or permission of the instructor

A study of the microeconomic segment of international specialization and exchange, including theories of international trade and their application to commercial policies, historical survey and examination of current problems of international trade, and the institutional setting of international trade.

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#### **ECON 346 International Payments**

3c-01-3sh

**Prerequisites:** ECON 121 and 122 or permission of the instructor

A study of the macroeconomic segment of international specialization and exchange, including analysis of balance of payments, exchange rates, and the mechanism of international economic and monetary adjustments; international macroeconomic policy; historical survey and examination of current international financial problems; and the institutional setting of international payments.

#### **ECON 350 Comparative Economic Systems**

3c-01-3sh

Prerequisite: ECON 101 or 121 or 122

An evaluation of premises, practices, institutions, and performance of capitalist, socialist, and mixed economies using economic theory and measurement.

#### **ECON 351 Russian Economic Development**

3c-01-3sh

Prerequisite: ECON 101 or 121 or 122

A study of the theory, institutions, and performance of the Russian economy including comparison of present and past patterns of economic development.

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#### **ECON 355 Statistics for Economists**

3c-01-3sh

An introduction to economic statistics, including frequency distributions, probability, distributions of random variables, functions of random variables, and tests of economic hypotheses.

#### **ECON 356 Introduction to Econometrics**

3c-01-3sh

**Prerequisites:** ECON 355 or its equivalent or permission of the instructor

An introduction to econometrics, including linear normal regression models of two or more random variables, special econometric problems, and solutions of simultaneous equations.

#### **ECON 360 Economics of Health Services**

3c-01-3sh

An analysis of the allocation of resources in the health sector using demand and supply techniques. Pricing and output decisions by physicians, hospitals, and other health agencies will be considered along with other current policy issues.

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## **ECON 371 Economics of Labor Legislation**

3c-01-3sh

**Prerequisite:** ECON 330 or permission of the instructor

Economic background and effects of governmental regulation of labor relations, with emphasis on a detailed examination of National Labor Relations Act as amended.

#### **ECON 372 Economics of Wages and Employment**

3c-01-3sh

**Prerequisite:** ECON 330 or permission of the instructor

An analysis of wages and employment under various market structures. Also, analysis of the impact of labor market forces on wages, prices, and distributive shares.

# **ECON 373 Economics of Human Resources**

3c-01-3sh

**Prerequisite:** ECON 101 or 122

An inquiry into economic demographics and related factors affecting growth, structure, and distribution of an economy's labor force into different occupations.

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#### **ECON 383 Urban/Regional Economics**

3c-01-3sh

**Prerequisites:** ECON 121 and 122

Location theory, land use patterns, urban economic/regional growth change, and urban economic problems and policies.

#### **ECON 421 Macroeconomic Analysis**

3c-01-3sh

**Prerequisites:** ECON 121, 122 or permission of the instructor

Emphasizes aggregate income levels and problems of unemployment, inflation, and growth. Covers consumption and investment theories and the role of fiscal and monetary policy.

#### **ECON 422 Microeconomic Analysis**

3c-01-3sh

Prerequisites: ECON 121, ECON 122, MATH 121 or equivalent

Consumer behavior, theory of the firm, theory of exchange, market structures, distribution, general equilibrium theory,

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#### **ECON 480 Seminar**

3c-01-3sh

**Prerequisite:** Permission of the instructor

Seminar in selected economic issues or problems.

#### **ECON 481 Special Topics**

var-1-3sh

**Prerequisite:** Permission of the instructor

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

## **ECON 482 Independent Study**

var-1-6sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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#### **ECON 493 Internship in Economics**

var-2-12sh

**Prerequisite:** A student must be an economics major who has completed at least 12 semester hours in economics and who has at least a 2.5 grade-point average in the major and in all coursework.

Provides on-the-job experience in economics positions with private and governmental employers. The student is also required to complete related academic work in the form of papers and selected readings. Number of semester hours earned will depend upon the nature of the job and amount of time involved in internship. A maximum of 6sh earned in this course may be counted toward the 30sh in economics requirement for Economics majors.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# Geography

# **Department of Geography and Regional Planning College of Humanities and Social Sciences**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

GEOG 101 GEOG 102 GEOG 104 GEOG 213 GEOG 230 GEOG 231 GEOG 241 GEOG 251 GEOG 252 GEOG 253 GEOG 254 GEOG 255 GEOG 256 GEOG 257 GEOG 281 GEOG 313 GEOG 314 GEOG 316 GEOG 331 GEOG 332 GEOG 333 GEOG 334 GEOG 335 GEOG 336 GEOG 337 GEOG 341 GEOG 342 GEOG 343 GEOG 352 GEOG 371 GEOG 411 GEOG 412 GEOG 415 GEOG 417 GEOG 431 GEOG 432 GEOG 440 GEOG 464 GEOG 481 GEOG 482 GEOG 493 GEOG 499

# GEOG 101 Introduction to Geography: Human Environment

3c-01-3sh

Throughout history, human life and society have been shaped by the physical environment. Today, human activity threatens that environment. The relationship between humans and environment is examined in the context of the surface processes of weather, climate, plate tectonics, population distribution, and soil formation. Topics include agriculture, acid rain, global warming, deforestation, desertification, erosion, volcanism, and pollution.

# **GEOG 102 Geography of United States and Canada**

3c-01-3sh

The cultural landscape of North America is studied. The relationship between man and environment is examined and spatial patterns of environment, economy, society, and politics are considered.

# GEOG 104 Geography of the Non-Western World

3c-01-3sh

Relates theories of the discipline of geography to problems in the developing world. Emphasizes geographic components of dependency theory, indigenous versus industrial strategies of resource management; world systems theory, spatial legacies of colonialism; and development economics, theories of migration, and urban structure to explore causes, characteristics, and consequences of underdevelopment.

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# GEOG 213 Cartography I

3c-01-3sh

Introduces students to principles of thematic map construction. Emphasis is on the techniques of choropleth mapping and the production of scientific graphs and charts. (Also offered as RGPL 213; may not be taken for duplicate credit)

#### **GEOG 230 Cultural Geography**

3c-01-3sh

An introduction to cultural geography, including population, settlement, historical, urban, and political geography, human relationships with the natural environment, and the literature and methods of cultural geography.

# **GEOG 231 Economic Geography**

3c-01-3sh

An introduction to geographic concepts, methods, and skills related to spatial patterns of production, consumption, and exchange over the earth's surface.

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#### **GEOG 241 Physical Geography**

3c-01-3sh

An introduction to physical geography including the study of weather, climate, soils, vegetation, landforms, energy cycles, and the hydrologic cycle.

#### GEOG 251 Geography of Pennsylvania

3c-01-3sh

Regions of Pennsylvania are examined in detail to identify man-environment relationships. Soils, topography, climate, vegetation, population, and economic patterns are studied.

#### **GEOG 252 Geography of Latin America**

3c-01-3sh

Impact of rapid population growth and economic development on the environment and spatial organization of Latin America are considered. The resource base and cultural heritage of the region are studied.

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## GEOG 253 Geography of Europe

3c-01-3sh

Investigates relationships underlying land use, dominant international problems, boundary disputes, and regional complexes of the European continent.

#### GEOG 254 Geography of Russia and the Soviet Sphere

3c-01-3sh

Examines the Russian Republic and the former Soviet empire including the new nations emerging from the U.S.S.R. and former satellite nations. Settlement patterns, economics, cultures, and physical environments are studied. Contemporary topical emphasis is placed on efforts at transformation from communist to market economics and the geo-political status of the new nations. (Offered as Geography of U.S.S.R. prior to 1995-96)

#### **GEOG 255 Geography of Africa**

3c-01-3sh

Systematic survey of the physical, economic, political-historical, and cultural geography of the continent is followed by regional studies of countries and peoples in Africa, south of the Sahara.

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#### **GEOG 256 Geography of East Asia**

3c-01-3sh

Studies China, Japan, Korea, Outer Mongolia, Taiwan. Geographic background for development and wise use and restoration of natural resources are dealt with.

# GEOG 257 Geography of South and Southeast Asia

3c-01-3sh

India, Pakistan, Bangladesh, Sri Lanka, Burma, Thailand, Laos, Cambodia, Vietnam, Malaysia, and Indonesia are studied with special attention to regional similarities and differences, particularly as they pertain to human adjustment.

# **GEOG 281 Special Topics**

3c-01-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students. (May also be offered as RGPL 281; may not be taken as duplicate credit under same title)

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#### **GEOG 313 Cartography II**

3c-01-3sh

**Prerequisite:** GEOG 213

Gives an understanding of the compilation and use of maps and quantitative data. Develops skills essential to the construction of various types of maps. (Also offered as RGPL 313; may not be taken for duplicate credit)

#### **GEOG 314 Map and Photograph Interpretation**

3c-01-3sh

Maps and air photographs, along with remote sensing materials, permit inventory, and analysis of geologic, land use, urban development, and other landscape phenomena. The understanding of these materials and associated tools for their use is presented. (Also offered as RGPL 314; may not be taken for duplicate credit)

## **GEOG 316 Introduction to Geographic Information Systems**

3c-01-3sh

**Prerequisites:** GEOG 213, or equivalent, or permission of instructor

Automated methods for creating, maintaining, and analyzing spatial data are presented. Topics include 1) specialized GIS hardware and software, 2) vector vs. raster vs. object-oriented spatial data structures, 3) creation and manipulation of geographic data files, 4) database design and management concepts, 5) spatial analysis, and 6) cartographic design. (Also offered as RGPL 316; may not be taken for duplicate credit) (Offered as GE416: Computer-Assisted Cartography prior to 1995-96)

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#### **GEOG 331 Population Geography**

3c-01-3sh

Spatial variations in numbers, characteristics, and dynamics of human population, models, and theoretical constructs relevant to demographic structures and processes are studied, as well as major world and regional problems.

# **GEOG 332 Urban Geography**

3c-01-3sh

Basic concepts of urban geography including site, situation, function, urban land use, urban structure, and urban hierarchy are introduced. Relationships between urban geography and urban planning are explored. (Also offered as RGPL 332; may not be taken for duplicate credit)

#### **GEOG 333 Trade and Transportation**

3c-01-3sh

Deals with the spatial aspects of transportation systems and their use. Circulation, accessibility, time and distance concepts, and trade patterns are discussed. (Also offered as RGPL 333; may not be taken for duplicate credit)

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#### **GEOG 334 Political Geography**

3c-01-3sh

Geographic factors and conditions are analyzed as they relate to the character and function of states. Political institutions are evaluated in light of geographic conditions.

# **GEOG 335 Geography of Energy**

3c-01-3sh

Covers patterns and problems of energy production and consumption in human societies. Descriptions of what, where, and how much are combined with issues such as technological change, conservation, allocation, environment impacts, and economic development. Specific topics include global history and trends of energy development, pricing systems, types of energy, locations of production areas, and the energy status of the United States.

#### **GEOG 336 Social Geography**

3c-01-3sh

Spatial dimensions of the American society are the focus of this course. The distribution of various social groups and their impact on the landscape are considered.

#### **GEOG 337 Historical Geography**

3c-01-3sh

Studies of past geographies, geographical change through time, and historical perspectives on the cultural landscape are included. Historical geography of the United States is emphasized.

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# **GEOG 341 Climatology**

3c-01-3sh

Examines the elements of weather and climate on Earth. The location and causes of global climatic regions are examined in relation to moving pressure and wind systems. Also considers the climatic history of the planet and recent human modifications of the atmospheric environment.

#### **GEOG 342 Physiography**

3c-01-3sh

Focuses on landform types and their spatial distribution. Emphasis is placed on the tectonic forces that build landforms and the weathering and erosional processes that erode and shape surface features. The relationship between human activities and landforms is also considered.

# **GEOG 343 Geography of Fresh Water Resources**

3c-01-3sh

Learn about surface and groundwater as a resource with unique properties. Fresh water is defined physically by storage in the hydrologic cycle and the values assigned by different cultures. Problems featured relate to consumptive and withdrawal water uses, the problems of water supply and scarcity, water law and its inconsistencies, flooding and floodplain management, sources of contamination and pollution, wetlands, and case studies of selected river basins. (Offered as GE340 prior to 1998-99)

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### **GEOG 352 Planning Methods**

3c-01-3sh

**Prerequisite:** RGPL 350 or permission of instructor

Research, analytical design, and plan-making techniques in urban and regional planning. Examines basic items

necessary to prepare urban and regional comprehensive plans. (Also offered as <u>RP352</u>; may not be taken for duplicate credit) (Offered as GE361: Planning: Basic Studies and Analysis prior to 1996-97)

#### **GEOG 371 Aerospace Workshop**

3c-01-3sh

Develops an appreciation and provides information related to aerospace activities and contributions; offers background for teaching aerospace courses; discusses aviation/space careers; and presents the basic principles of flying (usually including some flight instruction). Offered summer only.

#### **GEOG 411 History of Geography**

3c-01-3sh

**Prerequisites:** <u>GEOG 213, 230, 231, 241, and 341 or 342</u>

Course dealing with history of the discipline, great ideas, leading problems, and unresolved issues.

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#### **GEOG 412 Research Seminar**

3c-01-3sh

**Prerequisite:** GEOG 411

This senior seminar and workshop is a capstone course that focuses on recent research in the major field. Students carry out a research project on a topic of local or regional importance. (Also offered as RGPL 412; may not be taken for duplicate credit) (Offered as GE312: Research in Geography and Planning prior to 1996-97)

# **GEOG 415 Remote Sensing**

3c-01-3sh

Deals with air photographs, satellite imagery, thermal sensing, and radar imagery and their application to deriving information about the earth's physical and cultural landscapes. (Also offered as RGPL 415; may not be taken for duplicate credit)

#### **GEOG 417 Technical Issues in GIS**

3c-01-3sh

**Prerequisites:** GE316

A project-based class in which students learn the skills to develop and maintain a Geographic Information System. Through cooperative learning students will design and implement functional systems. Methods for designing GIS systems to user specification, data collection, data input, project management, and system documentation are covered. (Also offered as RGPL 417; may not be taken for duplicate credit)

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#### **GEOG 431 Geography of American Indians**

3c-01-3sh

Focuses on the historical/cultural geography of Native Americans. Population, resources, land use, development, settlement patterns, and other selected topics are covered.

#### **GEOG 432 Geography of Crime**

3c-01-3sh

The geographical context of crime is examined from historical and contemporary viewpoints. Relevant concepts and analytical approaches are introduced.

#### **GEOG 440 Conservation: Environmental Analysis**

3c-01-3sh

Problems of exploitation and utilization of regional resources such as soils, minerals, forests, and wildlife are

considered in relation to population growth and regional planning and development.

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#### **GEOG 464 Land Use Policy**

3c-01-3sh

Introduces students to and provides an overview of land use issues at the regional, state, and federal levels. Emphasis is placed upon the evolution of contemporary policy strategies, constitutional issues, and regional controversies involved in the regulation of metropolitan growth, central city decline, and management of public lands. (Also offered as RGPL 464; may not be taken for duplicate credit)

#### **GEOG 481 Special Topics**

3c-01-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students. (May also be offered as RGPL 481; may not be taken for duplicate credit under same title)

#### **GEOG 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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## **GEOG 493 Internship**

var-3-12sh

Professional learning experience with emphasis on application of academic background. Open to majors and minors in geography with a total of 57sh and 15sh in the major. See internship supervisor for additional information.

#### **GEOG 499 Independent Study**

var-3-6sh

Independent research and study under faculty direction. Interested students should approach department chairperson for information.

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# **Psychology**

## **Department of Psychology**

**College of Natural Sciences and Mathematics** 

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

PSYC 101 PSYC 280 PSYC 290 PSYC 291 PSYC 310 PSYC 311 PSYC 312 PSYC 315 PSYC 320 PSYC 321 PSYC 325 PSYC 330 PSYC 331 PSYC 335 PSYC 341 PSYC 342 PSYC 345 PSYC 350 PSYC 355 PSYC 356 PSYC 371 PSYC 372 PSYC 374 PSYC 375 PSYC 376 PSYC 378 PSYC 379 PSYC 390 PSYC 410 PSYC 411 PSYC 421 PSYC 425 PSYC 450 PSYC 480 PSYC 481 PSYC 482 PSYC 493

#### **PSYC 101 General Psychology**

3c-01-3sh

An introduction to the scientific study of behavior and mental processes.

# **PSYC 280 Psychological Inquiry**

3c-01-3sh

**Prerequisites:** PSYC 101, Psychology minors

Introduces students minoring in Psychology to issues central to carrying out and interpreting empirical research in the field. Students will become more sophisticated consumers of empirical research findings. Students who have successfully completed <u>PSYC 290</u> are not permitted to take this course for credit.

# PSYC 290 Research Design and Analysis I

3c-21-4sh

Prerequisites: PSYC 101, MATH 217

A laboratory course devoted to designing, conducting, and evaluating results of psychological experiments.

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#### PSYC 291 Research Design and Analysis II

3c-21-4sh

**Prerequisites:** <u>PSYC 101</u>, "C" or better in <u>PSYC 290</u> A continuation of Research Design and Analysis I.

#### PSYC 310 Developmental Psychology

3c-01-3sh

Prerequisite: PSYC 101

Comprehensive study of all factors that contribute to human development from conception to death, particularly as they relate to psychological development of individual. A survey course directed at students not planning to take <u>PSYC 311</u>, <u>312</u>, or 373. Students may receive credit towards the Psychology major or minor for only one of <u>PSYC 310</u>, <u>311</u>, <u>315</u>.

### **PSYC 311 Child Psychology**

3c-01-3sh

Prerequisite: PSYC 101

The study of factors that influence total development and behavior of child. Current theories and research are considered, with focus upon optimum development of individual. Students may receive credit towards the Psychology major or minor for only one of PSYC 310, 311, or 315.

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#### **PSYC 312 Adult Development and Aging**

3c-01-3sh

**Prerequisite:** PSYC 101

A survey of physiological, cognitive, emotional, and social issues affecting the young adult, the middle-aged, and the elderly. Includes an examination of significant adult life crises.

# **PSYC 315 Experimental Development Psychology**

3c-21-4sh

Prerequisite: PSYC 280 or PSYC 290

Studies human development from conception to death with emphasis on the physical, cognitive, and emotional domains. Students will be involved in observation and data collection. Students may receive credit towards the Psychology major or minor for only one of PSYC 310, 311, or 315.

#### **PSYC 320 Personality**

3c-01-3sh

Prerequisite: PSYC 101

Provides comparative analysis of major representative traditional and contemporary theories of personality.

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#### **PSYC 321 Abnormal Psychology**

3c-01-3sh

Prerequisite: PSYC 101

The description, causes, and treatment of behaviors labeled abnormal in our society are studied from experimental and clinical points of view.

#### **PSYC 325 Psychological Testing and Measurement**

3c-21-4sh

**Prerequisites:** PSYC 101, MATH 217, sophomore standing

Presents a series of focused discussions on principles, methods, and issues of psychological measurement. Also describes the major psychological tests currently in use and illustrates the administration and scoring of these tests. The laboratory activities are intended to provide hands-on experiences in computerized analysis and evaluation of psychological tests, to demonstrate test administration and scoring in practical settings, and to enhance the understanding of psychological testing through class projects. (Offered as PSYC 322 prior to 2000-01)

#### **PSYC 330 Social Psychology**

3c-01-3sh

Prerequisite: <u>PSYC 101</u>

The study of the effects of the social environment on human behavior. Topics include perception of person, attitude formation and change, and small-group interaction. Students may not receive credit toward psychology major or minor for both PSYC 330 and 335.

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# **PSYC 331 Environmental Psychology**

3c-01-3sh

**Prerequisite:** PSYC 101

The study of the relationship between human behavior and its environmental context. Emphasis will be on the physical environment, both natural and built.

#### **PSYC 335 Experimental Social Psychology**

3c-21-4sh

Prerequisite: PSYC 280 or PSYC 290

A laboratory course in the effects of the social environment on human behavior. Topics include perception of persons, attitude formation and change, and small-group interaction. Includes experience with social psychological research methods. May not be taken for credit by students who have completed <u>PSYC 330</u>.

#### **PSYC 341 Conditioning and Learning**

3c-2l-4sh

Prerequisites: PSYC 101, 290

An examination of the basic principles of learning and related phenomena; discussion of classical conditioning, discrimination learning, and aversive control of behavior.

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#### **PSYC 342 Human Cognition: Memory and Thinking**

3c-21-4sh

Prerequisites: PSYC 101, 290

A study of methods and findings in areas of human memory and human information processing. Students may not receive credit towards the psychology major or minor for both PSYC 342 and 345.

# **PSYC 345 Introduction to Human Cognition**

3c-01-3sh

Prerequisite: PSYC 101

Designed to provide an overview of cognitive psychology. The Information Processing Model is contrasted with its predecessor, Behaviorism, and its contemporary challenger, Connectionism. Students may not receive credit towards the psychology major or minor for both PSYC 342 and 345.

# **PSYC 350 Physiological Psychology**

3c-21-4sh

Prerequisites: PSYC 101, 290

A study of the relationship between behavior and the anatomy and physiology of the nervous system. Students may not receive credit towards the Psychology major or minor for both PSYC 350 and 356.

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#### **PSYC 355 Comparative Psychology**

3c-01-3sh

Prerequisite: PSYC 101

A survey of animal behavior patterns and control mechanisms including learning, development, communication, and social behavior. Emphasis is on the relationship of the animal to its environment and on the relationship of animal models to human behavior.

# **PSYC 356 Biopsychology**

3c-01-3sh

**Prerequisites:** PSYC 101

A study of the relationship between behavior and the anatomy and physiology of the nervous system. Students may not receive credit towards the Psychology major or minor for both PSYC 350 and 356.

#### **PSYC 371 Human Motivation**

3c-01-3sh

Prerequisite: PSYC 101

A systematic study of how behavior is initiated, sustained, directed, and terminated. Current theories in this area are critically reviewed.

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# **PSYC 372 Drugs and Behavior**

3c-01-3sh

**Prerequisites:** <u>PSYC 101</u> and junior standing or permission

A survey of the current knowledge concerning the actions of drugs. Topics will include legal and social issues surrounding drug use, hazard potential of commonly used drugs, review of current theories and issues regarding the use of drugs in psychotherapy, and consideration of treatment approaches for addiction.

#### **PSYC 374 Stress and Coping**

3c-01-3sh

Prerequisite: <u>PSYC 101</u>

Fundamental concepts and findings in stress and stress-related disorders. Relationships of stress to disease and methods for coping with stress are presented.

#### PSYC 375 Mass Media and Behavior

3c-01-3sh

**Prerequisites:** PSYC 101 and junior or senior status

Theory and research on the influence of the mass media on human behavior and attitudes. Topics include: the effects of news and political advertising on public opinion; the effects of racist and sexist portrayals; and the effects of violence and pornography on aggressive behavior. (Also offered as COMM 375; may not be taken for duplicate credit)

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#### PSYC 376 Psychology of Health Behavior

3c-01-3sh

**Prerequisite:** PSYC 101

An examination of the role of behavior factors in health status with a strong focus on preventive health behaviors and the role of the psychologist in promotion of health-related behavioral changes.

#### PSYC 378 Psychology of Death and Dying

3c-01-3sh

Prerequisite: PSYC 101

Theories and research which delineate the psychological factors affecting the dying person as well as those persons close to one who is dying are discussed.

#### **PSYC 379 Psychology of Human Sexuality**

3c-01-3sh

Prerequisite: PSYC 101

Provides an overview of the psychological issues and research relevant to sexuality with an emphasis on gender roles. Social, psychological, and gender perspectives are used to examine a number of topics, including contemporary sexual attitudes, sexual response, sexual relationships, sexual dysfunction, sexual variations, sexual preference, and sexual violence. Research pertaining to each topic is presented. Students are encouraged to critically evaluate research and theory and to make connections between the material and their personal experience.

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#### PSYC 390 Industrial-Organizational Psychology

3c-01-3sh

Prerequisites: PSYC 101, MATH 214/217

The study of psychological principles in work organizations; application of psychological theory to the understanding and explanation of individual behavior and experience in work organizations. May not be taken for credit by students who successfully completed <u>PSYC 425</u>.

# **PSYC 410 Historical Trends in Psychology**

3c-01-3sh

**Prerequisite:** PSYC 101, junior or senior standing or permission

A comprehensive overview of historical antecedents of contemporary psychology with emphasis on their implications for future developments in the field.

# **PSYC 411 Psychology of Women**

3c-01-3sh

Prerequisites: PSYC 101, junior or senior standing or permission of the instructor

A critical examination of the assumptions about women which are held by the discipline of psychology, considering both current research and individual experience. The psychological effects of socialization on sex role identity, achievement, interpersonal power, mental health, and critical incidents in female development are discussed in the context of relevant concepts from developmental and social psychology.

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## **PSYC 421 Psychology of Work**

3c-01-3sh

Prerequisite: PSYC 291

The analysis, measurement, prediction, and development of human aptitude, ability, and performance in work and employment situations.

#### **PSYC 425 Experimental Organizational Psychology**

3c-21-4sh

**Prerequisite:** 12 credits of psychology (including <u>PSYC 290</u>, beyond <u>PSYC 101</u>)

Introduces the student to theory, research, and methods in the investigation of human behavior and experience in organizations. Both classical and current literature in the field are discussed. In addition to lecture, students will conduct empirical research projects.

## **PSYC 450 Introduction to Clinical Psychology**

3c-01-3sh

**Prerequisites:** PSYC 101, 320, 321, and permission of instructor

An overview of clinical psychology, with emphasis on clinician's use of methods of evaluation and on treatment and modification of behavior.

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#### **PSYC 480 Honors Seminar in Psychology**

3c-01-3sh

A seminar in the graduate tradition with a specialized topic. May be taken more than once to a maximum of 6sh.

#### **PSYC 481 Special Topics in Psychology**

var-1-3sh

**Prerequisites:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are offered primarily for upper-level undergraduate students. May be taken more than once to a maximum of 6sh.

#### **PSYC 482 Independent Study in Psychology**

var-1-3sh

**Prerequisites:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Individual students pursue their particular interests in psychology in consultation with a member of the staff. May be

taken more than once to a maximum of 6sh. Approval is based on academic appropriateness and availability of resources.

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# **PSYC 493 Psychological Practicum**

var-1-12sh

**Prerequisites:** PC101 and department consent

Under supervision of psychology department, selected students receive experience in application of psychological techniques. May be taken more than once to a maximum of 12sh.

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## Indiana University of Pennsylvania

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## **Political Science**

# **Department of Political Science College of Humanities and Social Sciences**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

PLSC 101 PLSC 111 PLSC 250 PLSC 251 PLSC 280 PLSC 281 PLSC 282 PLSC 283 PLSC 285 PLSC 300 PLSC 320 PLSC 321 PLSC 346 PLSC 350 PLSC 351 PLSC 353 PLSC 354 PLSC 355 PLSC 356 PLSC 358 PLSC 359 PLSC 360 PLSC 361 PLSC 362 PLSC 370 PLSC 371 PLSC 377 PLSC 380 PLSC 382 PLSC 383 PLSC 384 PLSC 385 PLSC 386 PLSC 387 PLSC 388 PLSC 389 PLSC 389 PLSC 480 PLSC 481 PLSC 482 PLSC 493

#### **PLSC 101 World Politics**

3c-01-3sh

An analysis of contemporary (post-1945) state system and forces shaping the world in which we live. Student is given a framework within which to analyze contemporary international politics.

#### **PLSC 111 American Politics**

3c-01-3sh

An introduction to American national government and politics, emphasizing Constitution, party system, Congress, Presidency, courts, and problems in national-state relations, civil rights, foreign policy, and social and economic policies.

#### **PLSC 250 Public Policy**

3c-01-3sh

Emphasizes dynamics of government as they are evidenced in public opinion, pressure groups, political parties, and our governmental institutions; attention also directed toward the political-economical nexus within American society.

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#### PLSC 251 State and Local Political Systems

3c-01-3sh

Institutions and processes of state and local governments, with special attention to Pennsylvania; emphasis on the nature of federalism, state constitutions, and role of state and local government in an urban society.

#### PLSC 280 Comparative Government I: Western Political Systems

3c-01-3sh

Analyzes Western political systems with emphasis upon major contemporary democratic governments of Europe. Analyzes and compares their political cultures, political institutions, and political processes.

#### **PLSC 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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#### **PLSC 282 International Relations**

3c-01-3sh

Provides a conceptual framework for understanding sovereignty, nationalism, power, security, dispute settlement, and diplomatic, legal, economic, and military relations of nation-states.

#### **PLSC 283 American Foreign Policy**

3c-01-3sh

Examines formulation and execution of American foreign policy, with attention to governmental institutions, mass media, interest groups, and public opinion; emphasizes contemporary problems.

#### PLSC 285 Comparative Government II: Non-Western Political Systems

3c-01-3sh

Analyzes major non-Western political systems with emphasis upon authoritarian and totalitarian systems. Analyzes and compares in a systematic manner their political cultures, political institutions, and political processes.

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#### PLSC 300 Research Methods in Political Science

3c-01-3sh

**Prerequisite:** PLSC 101 or PLSC 111

An examination of the application of the scientific approach to the investigation of social and political phenomena. Concentrates on approaches, methods, and computer tools. All political science majors and minors are strongly urged to enroll.

#### **PLSC 320 International Law**

3c-01-3sh

Prerequisites: PLSC 101, PLSC 281, or permission of instructor

The study of the development, nature, and function of international law, including recent trends.

#### **PLSC 321 International Organizations**

3c-01-3sh

**Prerequisites:** PLSC 101, PLSC 281, or permission of instructor

An inquiry into purposes, structures, and actions of contemporary international political organizations, such as United Nations, regional, and functional organizations.

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#### PLSC 346 Political Sociology

3c-01-3sh

Prerequisites: PLSC 111, SOC 151

Examines (a) who controls the state and state policy, (b) the role the state plays in stabilizing capitalism and protecting the power of the upper class, (c) the political activities of the middle and upper class, (d) labor, civil rights, welfare rights, and social movements in America. Cross-listed as SOC 458.

#### **PLSC 350 The Presidency**

3c-01-3sh

An examination of the Office of President, with attention to constitutional foundations, evolution, structure, powers,

and functions; some comparisons between presidential and parliamentary systems and between offices of President and governor.

#### **PLSC 351 Legislative Process**

3c-01-3sh

A functional study of legislative bodies and process of legislation, covering organization of legislative assemblies, operation of committee system, procedures, bill drafting, aides, and controls over legislation.

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#### **PLSC 353 American Political Parties**

3c-01-3sh

The role of people, parties, and pressure groups in politics of American democracy; attention to sectional and historical roots of national politics, voting behavior, pressure group analysis, and campaign activities.

#### **PLSC 354 Metropolitan Problems**

3c-01-3sh

Analyzes multiplicity of problems facing our metropolitan areas. Contemporary developments such as urban renewal, shrinking tax base, federal aid to cities, subsidized mass transit, municipal authorities, and political consolidation are examined.

#### **PLSC 355 Intergovernmental Relations**

3c-01-3sh

Explores characteristics of federal systems of government, with emphasis on theories, origins, institutions, problems in intergovernmental relations in the United States, federal systems in other nations, and trends.

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#### PLSC 356 Mass Media in American Politics

3c-01-3sh

Variant theories of the symbolic relationship between American politics and the press are examined in the light of the American colonial-national experience. The special Constitutional rights given to the media are explored, with particular attention to radio-TV.

#### **PLSC 358 Judicial Process**

3c-01-3sh

**Prerequisite:** PLSC 111

Explores nature and limits of judicial power, courts as policymaking bodies, selection of judges, decision process, external forces impinging on the courts, and role of Supreme Court in its relationship with Congress, the Presidency, and federalism.

#### PLSC 359 Constitutional Law and Civil Liberties

3c-01-3sh

**Prerequisite:** PLSC 111

A study of civil liberties and civil rights issues through leading Supreme Court decisions; topics treated include First Amendment rights, procedural due process and the Bill of Rights, and Equal Protection problems in civil rights.

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#### PLSC 360 Classical Political Thought

3c-01-3sh

#### **Restriction:** Not for credit after PHIL 323

The origins and development of Western thought from Plato and Aristotle through Cicero and Saint Aquinas. The focus is especially on political participation as a way of life, the unity of political and moral conceptions in premodern political thought, and the relationship between order and justice.

#### **PLSC 361 Modern Political Thought**

3c-01-3sh

Covers the major representatives of modern political thought since the Renaissance. Follows the development of the specifically modern notion of the state and political action through the works of Machiavelli, Hobbes, Locke, Rousseau, Marx, and Lenin. Emphasis will be on the "instrumentalist" state and the idea of a political science.

#### **PLSC 362 American Political Thought**

3c-01-3sh

Covers a variety of American political ideas from the Puritans through recent radical and conservative critiques of American liberal democracy. Focus on the continuing development of the idea of individual rights, the political theory of the Constitution, and the tension between classical liberalism and popular rule.

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#### PLSC 370 Introduction to Public Administration

3c-01-3sh

Theories of organization and structural organization, personnel processes, executive functions, financial administration, the politics of administration, public relations, and problems of democratic control of bureaucracy.

#### PLSC 371 Issues in Public Administration

3c-01-3sh

An intensive study of the role of federal agencies and their administrators in determining and developing public policy. Public administration in practice is emphasized by utilizing case studies.

#### **PLSC 377 Political Behavior**

3c-01-3sh

Prerequisites: PSYC 101, PLSC 111

An interdisciplinary course which investigates the psychological bases of political behavior. Cross-listed as PSYC 377.

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#### **PLSC 380 Soviet Politics**

3c-01-3sh

Essential features of Communist party and government of the former U.S.S.R., including geographical and historical background and ideological and theoretical foundations. <u>PLSC 280</u> should be taken prior to this course. (Course content is in revision to reflect changing structure.)

#### PLSC 382-387 Political Systems

3c-01-3sh

Intensive, comparative study of the government and politics of a selected region. Suggested prerequisites: <u>PLSC 280</u> and/or <u>PLSC 285</u>; PLSC 382 Africa; PLSC 383 Asia; PLSC 384 Middle East; PLSC 385 Central and Eastern Europe; PLSC 387 Latin America

#### PLSC 388 Political-Military Strategy

3c-01-3sh

Prerequisites: PLSC 281 or PLSC 283 or MLSC 101-102

Deals with national security problems including decision making and budgeting, levels of strategy, the utility of force, and the impact of the military on American society.

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#### **PLSC 389 Developing Nations**

3c-01-3sh

**Suggested prerequisites:** PLSC 280 and/or 285

Political characteristics of emerging nations; impact of economic and social change upon political structure; evolving patterns of political development; and techniques of nation-building.

#### **PLSC 480 Political Science Seminar**

3c-01-3sh

Readings and written assignments on a specific topic determined by the instructor in charge.

#### **PLSC 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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#### PLSC 482 Independent Study

var-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

#### **PLSC 493 Political Science Internship**

var-2-12sh

**Prerequisites:** 9sh in Political Science with 2.0 QPA; <u>PLSC 111</u>; approval of internship director and chairperson Practical experience in government and politics. "Log" and research project required. Course grade determined by the instructor. Maximum of 6sh applied to minimum in major; maximum of 3sh applied to minimum in minor.

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## Indiana University of Pennsylvania

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# **Sociology**

# **Department of Sociology College of Humanities and Social Sciences**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

SOC 151 SOC 231 SOC 233 SOC 251 SOC 271 SOC 272 SOC 273 SOC 274 SOC 281 SOC 286 SOC 301 SOC 302 SOC 303 SOC 314 SOC 320 SOC 333 SOC 335 SOC 336 SOC 337 SOC 340 SOC 341 SOC 342 SOC 345 SOC 348 SOC 352 SOC 357 SOC 361 SOC 362 SOC 363 SOC 380 SOC 421 SOC 427 SOC 428 SOC 448 SOC 452 SOC 456 SOC 457 SOC 458 SOC 480 SOC 481 SOC 482 SOC 483 SOC 493

#### **SOC 151 Principles of Sociology**

3c-01-3sh

A scientific study of structure and functioning of human societies, with special attention to factors responsible for the organization and transformation of sociocultural systems. Specific course content varies from one instructor to another.

#### **SOC 231 Contemporary Social Problems**

3c-01-3sh

An exploration of some pressing problems currently endemic to Western society. Problems are defined and solutions explored in light of historical, political, economic, social, and anthropological data.

#### **SOC 233 Language and Culture**

3c-01-3sh

Focuses on social and cultural functions of language. Particular emphasis on analysis of non-Western languages.

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#### **SOC 251 Sociology of Human Sexuality**

3c-01-3sh

An in-depth analysis of a formerly taboo topic, human sexuality. Current information from biological, psychological, and sociological research on human relationships is presented to provide a foundation for self-understanding and societal values.

#### **SOC 271 Cultural Area Studies: Africa**

3c-01-3sh

Explores the cultural diversity of the continent of Africa. The first unit examines the historical processes which shape modern society, including the formation of indigenous African empires, the evidence for trade routes, slave trading, and colonialism. The second unit examines the nature of African traditional societies, including analyses of forager and agricultural groups. The last unit covers issues of contemporary development in Africa such as famine and agricultural policy, the status of women in economic development, and apartheid. Reading includes ethnographic and historical accounts of African society as well as selections by African writers on the issues of contemporary society. (Also offered as <u>ANTH 271</u>; may not be taken for duplicate credit)

#### SOC 272 Cultural Area Studies: China

3c-01-3sh

Designed to assist the student in developing an understanding of contemporary China. While the course will begin with prehistoric and historic aspects of China, the focus will be on contemporary issues presented in the context of sociological theory. Specific Chinese cultural components that will be investigated include values, attitudes, norms, social organization, linguistics, and folklore. (Also offered as <u>ANTH 272</u>; may not be taken for duplicate credit)

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#### SOC 273 Cultural Area Studies: Southeast Asia

3c-01-3sh

An introduction to the peoples and cultures of Southeast Asia. Prehistory and the development of indigenous states in Southeast Asia and analysis of impact of world religions, such as Islam, and Western colonialism. Also examines modern hunter-gatherer and farming societies and discusses contemporary issues in social and economic change, including the "Green Revolution," tropical deforestation, the struggle of ethnic minority tribal peoples, and the plight of Indochinese refugees. (Also offered as <u>ANTH 273</u>; may not be taken for duplicate credit)

#### SOC 274 Cultural Area Studies: Latin America

3c-01-3sh

An introduction to the peoples and cultures of Latin America. Focuses on the prehistory and development of pre-Columbian complex societies in Mesoamerica and the Andes and analyzes the impact of European colonialism on these major regions. Also examines contemporary issues, such as civil wars, economic development, rural-urban migrations, and migration and immigration of Latin American peoples into the United States. (Also offered as <u>ANTH</u> 274; may not be taken for duplicate credit)

#### **SOC 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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#### SOC 286 Marriage, Kinship, and the Family

3c-01-3sh

Sociological and anthropological study of patterns of marriage, kinship, and family life, with emphasis on the relationship between family patterns and other social institutions. Topics covered include the family and marriage in historical and comparative perspective; worldwide patterns of gender stratification; incest and incest avoidance; class and race contexts of family patterns; mate selection and love; parenthood and child rearing; domestic and sexual violence; alternative family lifestyles; and the current crisis and possible future of the family. Intended for a broad audience but also open to sociology and anthropology majors and minors. (Also offered as <u>ANTH 286</u>; may not be taken for duplicate credit)

#### **SOC 301 Foundations of Sociological Practice**

3c-01-3sh

Prerequisite: **SOC 151** 

Introduces students to the field of sociological practice and develops an understanding of the relevance of micro and macro sociological theory to understanding human problems. Focuses on applications of sociological theory and methods to the helping professions and especially to understanding the interactional aspects of the relationship between service users and service providers. Also acquaints students with the structure of the human service system in American society.

#### **SOC 302 Clinical Sociological Practice**

3c-01-3sh

#### Prerequisite: **SOC** 301

Prepares the student to effect constructive change within individuals, groups, families, and communities. Draws its analysis, diagnosis, and methods from the foundations of sociological theory at the level of intervention with clients.

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#### **SOC 303 Social and Cultural Change**

3c-01-3sh

Prerequisite: **SOC 151** 

An exploration of current theoretical perspectives on social and cultural change. Special attention given to planned change at the local or regional level.

#### **SOC 314 Native Americans**

3c-01-3sh

A survey of culture history and culture area characteristics of Native Americans of North America. A detailed study of representative groups related to historical, functional, and ecological concepts.

#### **SOC 320 Sociological Theory**

3c-01-3sh

**Prerequisites:** SOC 151 and second-semester sophomore standing

A detailed survey of the historical development of sociological theory from the mid-nineteenth century to the present. Treats the classical theorists Marx, Durkheim, and Weber and such contemporary theoretical schools as functionalism, Marxian and Weberian conflict theory, cultural materialism, social evolutionism, rational choice theory, symbolic interactionism, ethnomethodology, sociobiology, structuralism, and postmodernism. Students are encouraged to take this course in the second semester of their sophomore year or during their junior year.

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#### SOC 333 Delinquency and Youth

3c-01-3sh

Prerequisite: **SOC 151** 

A study of social and cultural factors involved in various youth lifestyles, including delinquency. Cross-cultural and historical approach used in a review of social norms, social control, and socialization institutions and community-based programs for rehabilitation.

#### **SOC 335 Alcohol and Drug Abuse**

3c-01-3sh

Prerequisite: **SOC** 151

Examines the social issues and problems of alcohol and drug misuse in American society. Legal and illegal substances will be considered, and the causes of substance abuse as well as alternatives will be examined.

#### **SOC 336 Sociology of the Family**

3c-01-3sh

Prerequisite: <u>SOC 151</u>

Sociological study of the family from various theoretical viewpoints. Special emphasis will be placed on the contemporary American family. A variety of topics will be covered, such as mate selection, power relationships and roles in the family, parent-child interaction, marital satisfaction, divorce, and others.

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#### **SOC 337 World Societies and World Systems**

3c-01-3sh

**Prerequisite:** One of the following: <u>ANTH 110</u>, <u>ECON 101</u> or <u>121</u>, <u>GEOG 230</u>, <u>HIST 202</u>, <u>PLSC 101</u> or <u>282</u>, <u>SOC 151</u>

A detailed analysis of the evolution of human societies, with special emphasis on the modern world system of societies that began to emerge in the sixteenth century and that has since expanded to include the entire globe. Topics include societies during the preindustrial era; the emergence of modern capitalism in the sixteenth century; relations between developed and less-developed societies in the modern world; the ascent and decline of nation-states in the modern world; the current plight of the Third World; the rise and demise of socialism in the twentieth century; and various scenarios for the human future.

#### **SOC 340 Sociology of Industry**

3c-01-3sh

**Prerequisite:** SOC 151

An examination of industrial organizations and their environments. Production systems analyzed in terms of different forms of organization, e.g., bureaucratic, power-equilibrium, and worker-participation. Special attention paid to who defines production, how such definitions are legitimized, and how constraints are placed on such definitions by union and other political organizations.

#### **SOC 341 Sociology of Education**

3c-01-3sh

Prerequisite: **SOC** 151

Examines the place of education in society. Special attention to the development of education in America and its relation to political and economic phenomena. Some attention given to education in other industrial and agrarian societies.

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#### SOC 342 Social and Cultural Aspects of Health and Medicine

3c-01-3sh

Prerequisite: 6sh in Sociology or Anthropology

A review of the fields of medical sociology and anthropology. Focuses on such topics as health and illness in cross-cultural context, aging, social and psychological aspects of pain, and social organization of health facilities and services. Definitions of limits of "life" and "death" in context of holistic health.

#### **SOC 345 Interpersonal Dynamics**

3c-01-3sh

Prerequisite: **SOC** 151

A study of the interaction between and among individuals and groups in various social settings. Emphasis will be on self-understanding, small groups, socialization, social influence and compliance, person perception, collective behavior, and mass communication.

#### **SOC 348 Sociology of Work**

3c-01-3sh

Prerequisite: **SOC** 151

Focuses upon the sociological examination of the various forms of labor, employment, and unemployment present in industrial societies. Examines the nature of work and unemployment in the modern era and how these forms are being transformed in the present period.

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#### **SOC 352 Sociology of Religion**

3c-01-3sh

Prerequisite: <u>SOC 151</u>

Nature, role, and function of religious phenomena in human societies will be explored with special attention to certain critical issues as they relate to religion and politics and religion and economics. Some fundamental modes of religious life including ritual forms and mythic expressions will be examined. Other themes such as revitalization movements and processes of secularization in modern societies will be included.

#### **SOC 357 Sociology of Aging**

3c-01-3sh

Prerequisite: **SOC 151** 

An introduction to various problems faced in the process of growing older. Attitudes of society toward elderly and social and cultural impact of an aging U.S. population examined.

#### **SOC 361 Social Stratification**

3c-0l-3sh

Prerequisite: **SOC 151** 

Examines leading perspectives in the major sociological subfield of social stratification. Attention drawn to different ways of ranking people in human societies, issues concerning the distribution of income and wealth, the role of political power in determining who gets what, and the causes and consequences of social inequality for specific groups.

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#### **SOC 362 Racial and Ethnic Minorities**

3c-0l-3sh

Prerequisite: **SOC 151** 

Examines from a historical and comparative perspective the experiences of minority groups, with special emphasis on economic and political domination, stereotyping, prejudice, and discrimination. Techniques of majority group domination and the responses of minority groups are discussed. Various reasons for the different rates and patterns of assimilation are explored.

#### **SOC 363 Sociology of Gender**

3c-0l-3sh

**Prerequisite:** SOC 151

Explores current perspectives on the situations faced by women and men, primarily in the United States. Examines issues such as the impact of sex and gender on socialization, the construction of knowledge, intimate relationships, paid work, family relationships, health, and issues of change.

#### **SOC 380 Social Research Methods**

3c-01-3sh

Prerequisites: 9sh in sociology and junior standing

Examines diverse research designs used in the social sciences, i.e., survey, field study, experiment, documentary, and existing statistical data. Focuses both on logic and practice of social research. Students choose a number of miniprojects or a major research project.

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#### **SOC 421 Sociology of Mass Media**

3c-01-3sh

Prerequisite: **SOC 151** 

Examines the development of mass media as dominant cultural forms within advanced industrial societies in the twentieth century. Emphasizes critical understanding of the sociohistorical development, the underlying assumptions, and the social implications of the advance of mass media.

#### **SOC 427 Spouse Abuse**

3c-01-3sh

Prerequisite: **SOC 151** 

Considers the range of theoretical explanations for the pervasive violence between husband and wife. Particularly examines the research on wife battering and the implications of this research for programs and policies assisting both the victim and the abuser.

#### **SOC 428 Child Abuse**

3c-01-3sh

Prerequisite: **SOC 151** 

Examines the prevalence, causes, and social implications of physical, sexual, emotional, and neglect forms of child abuse in society. Child abuse will be studied from the individual, family, and societal level perspectives. Potential intervention strategies will also be considered.

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#### **SOC 448 Social Policy**

3c-01-3sh

Prerequisite: **SOC 151** 

Focuses on the formation of social welfare programs in the U.S., current social policy issues, and debates between conservative, liberal, and social democratic policy analysts. Special attention drawn to various social problems and a range of social policies designed to ameliorate the economic disadvantages of single individuals, single parents, and two-parent families. Also devoted to understanding the relationship between social policy, research, and implementation.

#### **SOC 452 Disability and Society**

3c-01-3sh

Prerequisite: **SOC 151** 

Analyzes disability from a sociological perspective. Includes consideration of historical and current views of disability and a review of related concepts from the fields of medical sociology and the sociology of deviance. Also includes an analysis of the effects of disabilities on individuals and families through the life course and a consideration of related ethical, economic, political, and social policy issues. The emphasis is on disability as a social construction.

#### **SOC 456 Field Research Methods**

3c-01-3sh

**Prerequisite:** SOC 455 or permission

An examination of methods and practice of sociology and anthropology in the areas of qualitative and field methods. Concentrates upon the development of field notes, interviewing techniques, participant observation, etc. Qualitative methods of sampling and analysis will include theoretical sampling and analytic induction. Brief background research into community, organizational, and group structure will also be emphasized.

#### **SOC 457 Computer Use in Sociology**

3c-01-3sh

**Prerequisite:** Permission of the instructor

Introduces students to use of microcomputers in social science research and practice. Uses a variety of software for clinical sociological applications as well as quantitative analysis of social scientific data. These include client information systems, field notes and downloading such notes, exchanging information between agencies, and statistical analyses for program evaluation and forecasting.

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#### **SOC 458 Political Sociology**

3c-01-3sh

Prerequisite: **SOC** 151

An examination of the social context of power and politics, with special reference to such topics as who controls the state and state policy; the role of the state in stabilizing capitalism and protecting the power of the upper class; political activities of the middle and upper classes; and labor, civil rights, and welfare rights social movements in America. Especially considers the problems of conducting and implementing social policy research for social change Crosslisted in Political Science as <u>PLSC 346</u>: Political Sociology.

#### **SOC 480 Sociology Seminar**

var-1-3sh

Prerequisite: **SOC 151** 

A seminar for advanced students devoted to an intensive analysis of specialized issues within the discipline.

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#### **SOC 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are offered primarily for upper-level undergraduate students.

#### **SOC 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office An opportunity for students to engage in an in-depth analysis of some topic through consultation with a faculty member. A semester project ordinarily expected. Approval is based on academic appropriateness and availability of resources.

#### **SOC 483 Readings in Sociology**

var-1-3sh

Prerequisite: **SOC 151** 

Directed readings on special topics in sociology.

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#### **SOC 493 Internship in Sociology**

var-3-12sh

**Prerequisite:** Permission of the instructor

Supervised experience in a public or private organization that extends and complements coursework at the university.

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## Indiana University of Pennsylvania

2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# **Health and Physical Education**

#### Department of Health and Physical Education College of Health and Human Services

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

HPED 117 HPED 119 HPED 124 HPED 127 HPED 128 HPED 142 HPED 143 HPED 145 HPED 160 HPED 162 HPED 165 HPED 166 HPED 175 HPED 200 HPED 210 HPED 211 HPED 212 HPED 213 HPED 221 HPED 230 HPED 242 HPED 251 HPED 252 HPED 261 HPED 263 HPED 264 HPED 270 HPED 271 HPED 272 HPED 273 HPED 274 HPED 276 HPED 279 HPED 280 HPED 281 HPED 315 HPED 318 HPED 319 HPED 321 HPED 325 HPED 333 HPED 335 HPED 341 HPED 343 HPED 344 HPED 345 HPED 346 HPED 350 HPED 353 HPED 354 HPED 365 HPED 372 HPED 375 HPED 376 HPED 377 HPED 408 HPED 410 HPED 411 HPED 412 HPED 413 HPED 426 HPED 430 HPED 441 HPED 442 HPED 446 HPED 447 HPED 448 HPED 450 HPED 477 HPED 481 HPED 482 HPED 485 HPED 493

#### **HPED 117 Fitness-Swimming**

0c-21-1sh

Fundamentals and techniques of swimming and fitness.

#### **HPED 119 Golf-Bowling**

0c-21-1sh

Fundamentals and techniques of golf and bowling.

#### **HPED 124 Fitness Through Dance**

0c-21-1sh

A physical fitness development course for men and women that employs a combination of exercises and dance techniques performed to music.

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#### **HPED 127 Fencing**

0c-21-1sh

Fundamentals and techniques of fencing.

#### **HPED 128 Golf**

0c-21-1sh

Fundamentals and techniques of golf.

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#### HPED 142 Foundations of Health, Physical Education, and Sport

3c-01-3st

Historical, philosophical, and psychosocial foundations of health and physical education are introduced. Specific

emphasis is given to scientific theories and principles in such areas as health promotion and behavioral change, exercise physiology, motor development, kinesiology, and motor learning.

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#### **HPED 143 Health and Wellness**

3c-01-3sh

Introduces the student to the major components of wellness: contemporary nutrition issues as they relate to personal food choices, physical fitness, stress management, sexually transmitted diseases, AIDS, and substance abuse. Completion of HPED 143 fulfills the Liberal Studies Health and Wellness requirement.

#### **HPED 145 Tennis**

0c-21-1sh

Fundamentals and techniques of tennis.

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#### **HPED 160 Downhill Skiing**

1sh

The cognitives and skills necessary for beginning downhill skiing.

#### **HPED 162 Scuba Diving**

0c-21-1sh

Designed to teach necessary skills and proper use of equipment for underwater swimming. Tanks, regulators, weights, and special equipment furnished. Student must purchase a mask, fins, and snorkel (approximately \$15). Includes theory as well as practical work.

#### **HPED 165 Lifeguarding**

0c-21-1sh

**Prerequisites:** Departmental consent and Advanced Swimmer

Designed for professional lifeguards. Includes lifeguarding techniques for pools and fresh and saltwater beaches. Red Cross certification (Pittsburgh Division) granted upon satisfactory completion of course requirements.

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#### **HPED 166 Basic Smallcraft**

0c-21-1sh

**Prerequisite:** Intermediate swimming ability

Designed to introduce the use of the canoe, paddle board, and sailboat. Emphasis is placed on the development of boating skills, safety rescue, and survival procedures. Red Cross smallcraft certification is granted upon successful completion of the course.

#### **HPED 175 Prevention and Care of Injuries to the Physically Active**

 $2c_{-}01_{-}2sh$ 

General information will be presented related to the prevention, recognition, and care of both acute and chronic injuries common to participants of physical activity/fitness, and athletics. Specific topics to be addressed include prevention techniques, the classification and staging of injury conditions, basic evaluation techniques, as well as emergency management and follow-up care procedures.

#### **HPED 200 Fundamentals of Physical Activity**

1c-2l-1sh

A foundation course designed for the purpose of training in the analysis and performance of the fundamental skills for subsequent motor behavior as they relate to games, sports, and dance. The opportunity to refine powers of observation through principles of efficient and effective movement fundamentals is provided. Individual data profile charts of performance will be completed for future reference.

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#### **HPED 210 Motor Development**

2c-01-2sh

Corequisite: <u>HPED 200</u>

A study of the processes of growth and development and their effects upon human motor behavior across the lifespan. Includes changes during physical growth, maturation and aging, and subsequent effects upon cognitive, perceptual, and physiological performance, both individually and within a sociocultural context.

#### HPED 211 Dance, Rhythmic Activities, and Gymnastics

2c-41-3sh

Prerequisite: <u>HPED 200</u>

Designed to provide an aesthetic and kinesthetic movement experience which will prepare the student as a teacher of basic movement in a variety of situations. The dance section will include creative movement, rhythms, and square, folk, and contemporary dance. Gymnastics will include basic tumbling, stunts, and apparatus skills.

#### **HPED 212 Team Sports**

2c-41-3sh

**Prerequisite:** <u>HPED 200</u>

Introduces students to the history, current status, and teaching similarities among team sports. Also includes materials and methods unique to each sport.

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#### HPED 213 Individual and Dual Sports and Adventure Activities

2c-41-3sh

**Prerequisite:** HPED 200

Provides historical and current status of individual and dual sports, as well as adventure activities. Includes skill development, analysis of skilled performance, and strategies for planning and implementing instructional programs.

#### **HPED 221 Human Structure and Function**

3c-01-3sh

Anatomical organization of the human body, surveyed in sufficient depth to prepare students for physiology, biomechanics, and adaptive physical education.

#### **HPED 230 Aerobic Fitness**

1c-2l-2sh

An opportunity to participate in a variety of aerobic activities; will aid fitness leaders in developing and implementing several types of aerobic programs; will offer current information on aerobics as preventive medicine.

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#### **HPED 242 Emergency Health Care**

1c-2l-1sh

American Red Cross Standard, Advanced, and Instructor's certification and Multimedia Instructor's certification awarded upon successful completion of this course.

#### **HPED 251 Foundations of Safety and Emergency Health Care**

3c-01-3sh

Focuses on accident prevention, injury control, and first responder's skills. Emphasizes identification of causes of accidents, recommended countermeasures, and mitigation. American Red Cross certifications are issued in (1) standard first aid, (2) community CPR, (3) instructor of standard first aid, and (4) instructor of community CPR.

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#### **HPED 252 Introduction to the Driving Task**

2c-21-3sh

Provides an in-depth treatment of operating a motor vehicle competently in all major variations and under most conditions encountered in traffic. A competent operator is one who performs the total driving task knowledgeably and skillfully and demonstrates full understanding and application of identification, prediction, decision, and execution process.

#### **HPED 261 Water Safety Instructor**

0c-21-1sh

**Prerequisites:** Departmental consent and lifesaving certification

Emphasizes the teaching aspect of skills, techniques, and attitudes necessary in all areas of swimming. Students successfully completing course are qualified to hold such positions as waterfront directors, aquatic directors, and other similar positions.

#### **HPED 263 Aquatics**

0c-21-1sh

Basic performance techniques in swimming strokes presented with special emphasis on teaching methodology, aquatic sports and games, water safety, skin diving, springboard diving, and other aquatic activities.

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#### **HPED 264 Advanced Aquatics**

0c-2l-1sh

Swimming and rescue skills necessary to complete American Red Cross Senior Lifesaving Course. Emphasis placed upon a broad range of other aquatic experiences and teaching strategies.

#### **HPED 270 Instructor of Handicapped Swimming**

0c-21-1sh

**Prerequisite:** <u>HPED 261</u>

Concerned with the learning of skills used to teach swimming to exceptional children. All handicaps are considered. Important not only in physical education but also for the mentally retarded, rehabilitation education, agency personnel, postgraduate swimming education, YMCA Boys Clubs, community programs, private clubs, and industrial programs. The Red Cross certification Instructor of Swimming for the Handicapped is granted upon successful completion of the course. Summer only.

#### **HPED 271 Instructor of Scuba Diving**

0c-21-1sh

**Prerequisite:** HPED 262

Prepares instructors to teach skin and scuba diving. Emphasis is placed on teaching methods, use and mechanics of equipment, safety, diving physics and physiology, and advanced diving skills. Instructor of Scuba Diving certificate granted by the Professional Association of Diving Instructors upon successful completion of the course. Summer only.

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#### **HPED 272 Instructor of Canoeing**

0c-21-1sh

**Prerequisite:** HPED 266

Concerned with the learning of skills pertinent to teaching canoeing to beginners. All aspects of canoeing including paddling, repair of equipment, white water canoeing, safety, survival, and teaching techniques are presented. The Red Cross certification Canoeing Instructor is granted upon successful completion of the course. Summer only.

#### **HPED 273 Instructor of Sailing**

0c-21-1sh

**Prerequisite:** HPED 266

Concerned with learning of skills pertinent to teaching beginning sailing. All aspects of sailing are considered, including the elements of sailing, repair of equipment, racing, safety, and techniques of teaching. Summer only.

#### **HPED 274 Instructor of Infants and Preschoolers in Swimming**

0c-21-1sh

**Prerequisites:** <u>HPED 261</u>, instructor's consent

Methods course for preparation of swimming instructors in the knowledge and skills of teaching young children to swim. YMCA certification Instructor of the Very Young granted upon successful completion of course requirements. Summer only.

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#### **HPED 276 Coaching of Swimming**

0c-21-1sh

**Prerequisite:** HPED 261

A lecture-discussion methods course designed to prepare Health and Physical Education majors for coaching of swimming. Emphasis is placed on training methods, officiating, nutrition, scientific principles, and meet strategy. Summer only.

#### **HPED 279 Swimming Pool Maintenance and Chemistry**

21-01-2sh

Prerequisite: <u>HPED 264</u>

A lecture-discussion course designed to teach fundamental water chemistry, filtration, treatment of water problems, winterization of outdoor pools, and pool management. Emphasis is placed on water testing and analysis of chemicals and bacteria. Summer only.

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#### **HPED 280 Aquatic Facilities Management**

21-01-2sh

**Prerequisite:** HPED 264

An organizational and administrative course designed to prepare the aquatic professional for management of indoor and outdoor facilities. Includes facility design, safety procedures activity, and sport and recreational aspects. Summer only.

#### **HPED 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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#### **HPED 315 Biomechanics**

3c-01-3sh

**Prerequisite:** <u>HPED 221</u>

A study of the relationship between mechanical and physical principles and human movement. (Offered as HP246 prior to 1998-99)

#### **HPED 318 Preprofessional Experience I**

3c-01-1sh

**Recommended Prerequisite:** <u>HPED 321</u> **Prerequisite:** Physical Education majors only

Students teach as assistants to a faculty member in two different activities, one in physical education (general education) and one in elementary physical education at the University School. Emphasis will be on unit development, class management, leadership skills, and evaluation.

#### **HPED 319 Preprofessional Experience II**

var-3sh

**Prerequisites:** Advanced standing, departmental approval

Students may request an assisting/teaching/leadership assignment in certain university-related areas that may be either instructional or noninstructional in nature. Examples of such professional areas are adaptives, recreation, dance, coaching, aquatics, intramurals, administration, elementary, service or major classes, club activities, and assisting in laboratory or the training room.

#### **HPED 321 Methods in Elementary Health and Physical Education**

3c-0l-3sh

**Prerequisite:** Junior standing

Guides the professional student in the development of competencies essential to teaching health and physical education at the elementary school level. Includes theories of instruction in health science, necessity of a safe and healthful school environment, and judicious utilization of school and community health resources and service, as well as study of theories of and movement relevant to elementary school children. Observation, materials, methods of teaching, and opportunities for intern teaching provided.

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#### **HPED 325 School and Community Health**

3c-01-3sh

Prerequisite: Junior standing

Introduces students to the role of school and community in protecting and promoting the health of its members. Topics include historical development of the concepts of health and health education, identification of national and community goals to reduce risk of disease and enhance health status, and the responsibilities of both school and community toward achieving these goals.

#### **HPED 333 Psychology of Coaching**

2c-01-2sh

The goals of athletics in schools and communities; principles and responsibilities of the coach; current problems.

#### **HPED 335 Coaching and Managing of Athletic Programs**

3c-01-3sh

Lecture course designed to prepare students for coaching or administering an athletic program. Emphasizes the professional preparation and responsibilities of a coach, the support and auxiliary personnel working under and with the coach, and the coach's responsibility to the athletes, plus the administrative responsibilities of coaching.

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#### **HPED 341 Evaluation in Health and Physical Education**

3c-01-3sh

**Prerequisite:** Junior standing

Evaluation theory, instructional objectives, and cognitive test construction; technical and practical considerations in testing and interpretation of test results in both health and physical education.

#### **HPED 343 Physiology of Exercise**

3c-01-3sh

**Prerequisite:** HPED 221

Physiological effects of exercise in humans. Major factors of diet, conditioning, physical fitness, maximum performance level, and fatigue are considered.

#### **HPED 344 Adapted Physical Education**

3c-01-3sh

**Prerequisite:** HPED 246

Recognition of structural deviations, corrective exercises, and physical education programs for a wide range of handicaps.

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#### **HPED 345 Athletic Training**

3c-01-3sh

**Prerequisite:** <u>HPED 221</u> or equivalent applied anatomy course

A survey of common athletic injuries with emphasis on etiology, pathophysiology, and classification. General injury assessment and management procedures will also be presented.

#### **HPED 346 Athletic Training Lab**

0c-21-1sh

Corequisite: HPED 345

Designed to develop basic athletic training skills for the beginning and intermediate athletic training student. Emphasis will be directed towards athletic taping and wrapping, contemporary immobilization and ambulation devices, protective sports equipment, and transportation and transfer of the injured athlete.

#### **HPED 350 Health Aspects of Aging**

3c-01-3sh

**Prerequisites:** PSYC 101, SOC 151, and junior standing

Current theory and research related to gerontology will be introduced to increase students understanding of the physical and psychosocial dimensions of aging. Additionally, this course will emphasize lifestyle factors and disease prevention aspects of aging. Recommended for students who plan to work with older adults.

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#### **HPED 353 Driver Education Program Management**

3c-01-3sh

Emphasizes the development, organization, and management of high school driver education from the standpoint of its historical development to its present programs designed to meet the demands of the highway transportation system. Special emphasis on the role of the teacher in conducting a high-quality program that will meet with student, parent, school, and community approval.

#### **HPED 354 Application of Driver Education Instructional Modes**

2c-21-3sh

**Prerequisites:** <u>HPED 251</u>, <u>252</u>, <u>353</u>

Prepares prospective driver education teachers to plan, teach, and evaluate the four modes of driver education (classroom, on-road, simulation, and multiple-vehicle range). Teaching high school students in supervised laboratory sessions is provided.

#### **HPED 365 Advanced Athletic Training**

3c-21-4sh

Prerequisites: <u>HPED 345</u>, <u>346</u>

Designed to teach assessment procedures, evaluation methods, and proper athletic training protocol for neuromuscular and skeletal muscle injuries. In addition, administrative issues in athletic training will be addressed emphasizing accurate medical documentation. Emphasis will be placed on subjective and objective assessment and documentation of findings.

#### **HPED 372 Health and Physical Education for Special Populations**

2c-01-2sh

**Prerequisite:** EDEX 112; junior level or above

Methods and techniques of teaching health and physical education to special populations will be explored. Designed primarily for students majoring in special education, the course will focus on handicapping conditions, limitations imposed by such conditions, and the responsibility of the special education teacher working in the physical education setting.

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#### **HPED 375 Physiological Basis of Strength Training**

3c-01-3sh

Designed to give the student the anatomical and physiological basis of muscle function. Students should also gain an understanding of changes that can be made through weight training and knowledge of programs that will bring about these changes. Opportunities for working with various types of equipment will be available.

#### **HPED 376 Athletic Training Clinical Practicum I**

0c-21-1sh

**Prerequisites:** HPED 251, 345, 346

Provides the opportunity to develop and demonstrate proficient psychomotor skills within the domains of athletic injury prevention and acute care, in coordination with a one-semester clinical field experience. This clinical field experience will allow each student an opportunity to practice and apply skills taught within this course under the direction of a clinical instructor within the IUP Athletic Department or an affiliated clinical site. Specific skills emphasized include, but are not limited to, those relating to safety/risk management, conditioning, equipment fitting, taping and wrapping, acute care, and transportation/transfer of the injured athlete. Restricted to students seeking certification by the National Athletic Trainers Association.

#### **HPED 377 Athletic Training Clinical Practicum II**

0c-21-1sh

**Prerequisites:** HPED 365

Provides the opportunity to develop and demonstrate proficient psychomotor skills within the domain of athletic injury assessment, in coordination with a one-semester clinical field experience. This clinical field experience will allow each student an opportunity to practice and apply skills taught within this course under the direction of a clinical instructor within the IUP Athletic Department or an affiliated clinical site. Specific skills emphasized include, but are not limited to, those relating to anatomical landmarks' identification, orthopedic and neurological evaluation, and general medical examination. Restricted to students seeking certification by the National Athletic Trainers Association.

#### **HPED 408 Guided Research Problem**

var-2sh

#### **Prerequisite:** Permission of department chairperson

Selection and research of a problem pertinent to student interests and those of the professions of health, physical education, and recreation. Classes held on a seminar basis.

#### **HPED 410 Exercise Prescription**

3c-0l-3sh

**Prerequisite:** <u>HPED 343</u>

Designed to teach individuals to write exercise prescriptions based upon a subject's tolerance for physical activity. Special emphasis on risk factors, techniques of evaluation, drugs, injuries, environmental factors, and motivation and their role in physical activity assessment.

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#### **HPED 411 Physical Fitness Appraisal**

3c-01-3sh

Involves the selection, administration, and interpretation of various tests for appraising the physical fitness levels of individuals. Information given concerning the various fitness components, and discussions held so that each student gains an understanding of the variables to be tested.

#### **HPED 412 Physical Activity and Stress Management**

3c-01-3sh

Acquisition of necessary understanding of anxiety and stress; their nature, place in society, and intervention strategies as they relate to physical activity.

#### **HPED 413 Physical Activity and Aging**

3c-01-3sh

Presents major aspects of physical activity, its importance to the older adult, and the organization of an activity program. Attention to physiology of physical activity, effects of activity on growth and aging, exercise prescription, flexibility, overweight and obesity, and motivational strategies.

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#### **HPED 426 Health Science Instruction**

3c-01-3sh

Health curriculum—K-12, methods and media of instruction in health science.

#### **HPED 430 The American Woman and Sport**

3c-01-3sh

Comprehensive, multidisciplinary analysis of the problems, patterns, and processes associated with the sport involvement of girls and women in our culture. Presents historical perspective with an emphasis on physiological, psychological, and sociocultural influences.

#### **HPED 441 Psychosocial Implications for Health and Physical Education**

3c-01-3sh

**Prerequisite:** Senior standing

A study of psychological and sociological influences, both theoretical and empirical, and their effects upon health and physical performance.

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#### HPED 442 Seminar in Health, Physical Education, and Recreation I

3c-01-3sh

Theory and philosophy of health, physical education, and recreation; current issues and problems; innovative and creative programs.

#### **HPED 446 Therapeutic Modalities**

3c-21-4sh

**Prerequisite:** HPED 365

A basic introduction to the use of therapeutic modalities and the role they play in the rehabilitation of athletic injuries. Physical agents used in the care of athletic injuries will be presented highlighting the physiological effects of each modality, as well as indications and contraindications for their use.

#### **HPED 447 Cardiopulmonary Resuscitation (CPR) Instructor**

1c-11-1sh

**Prerequisite:** Basic CPR certification

A study of methods and skills necessary to certify instructors of cardiopulmonary resuscitation and multimedia first aid. Successful completion of requirements leads to certification by the American Health Association and the American Red Cross. Summer only.

#### **HPED 448 Therapeutic Exercises for Athletic Injury Management**

3c-21-4sh

**Prerequisite:** HPED 365

The theoretical framework for athletic injury assessment and management of the injured athlete is discussed. A problem-solving approach to the selection and implementation of specific tests and therapeutic interventions is utilized. An overview of therapeutic management as well as the development of skill in basic therapeutic exercise procedures for improving muscle performance, relaxation, and mobilization is included.

#### **HPED 450 Curriculum and Programming in Sexuality Education**

3c-01-3sh

Topics include anatomy and physiology of the human reproductive tracts, development, birth defects, contraception, venereal disease, and abortion. Not for credit toward degrees in Biology.

#### **HPED 476 Athletic Training Clinical Practicum III**

0c-21-1sh

**Prerequisite:** HPED 365

Provides the opportunity to develop and demonstrate proficient psychomotor skills within the domains of athletic training organization/administration and education/guidance, in coordination with a one-semester clinical field experience. This clinical field experience will allow each student an opportunity to practice and apply skills taught within this course under the direction of a clinical instructor within the IUP Athletic Department or an affiliated clinical site. Specific skills emphasized include, but are not limited to, those relating to communication, record keeping, planning, budgeting and purchasing, facility design, policies/procedures, and other athletic health care managerial/administrative duties. Athletic training instruction and guidance skills will also be addressed. Restricted to students seeking certification by the National Athletic Trainers Association.

#### **HPED 477 Athletic Training Clinical Practicum IV**

0c-21-1sh

**Prerequisites:** HPED 446, 448

Provides the opportunity to develop and demonstrate proficient psychomotor skills within the domain of athletic injury rehabilitation, in coordination with a one-semester clinical field experience. This clinical field experience will allow each student an opportunity to practice and apply skills taught within this course under the direction of a clinical instructor within the IUP Athletic Department or an affiliated clinical site. Specific skills emphasized include, but are

not limited to, exercise, manual therapy, and other advanced musculoskeletal screening and therapeutic intervention techniques. Restricted to students seeking certification by the National Athletic Trainers Association.

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#### **HPED 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

#### **HPED 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

#### **HPED 485 Student Assistance Program Training**

3c-01-3sh

**Prerequisites:** Junior standing and EDSP 202

Introduces the student to the concept of Student Assistance Programs (SAP) in schools. Includes the history of SAP, current involvement in public education, and the educator's role as an SAP member. Provides an experiential basis for preparation to assume the role of an SAP member. Note: Majors in the B.S.Ed.-Health and Physical Education program will have first opportunity to enroll in class; any openings in the class will then be offered to Elementary and Secondary Education majors.

#### **HPED 493 Internship**

var-3-12sh

Educational opportunity which integrates classroom experience with practical experience in community service agencies or industrial, business, or governmental organizations. Junior standing required.

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## Indiana University of Pennsylvania

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## **Food and Nutrition**

# **Department of Food and Nutrition College of Health and Human Services**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

FDNT 110 FDNT 143 FDNT 145 FDNT 150 FDNT 151 FDNT 212 FDNT 213 FDNT 245 FDNT 281 FDNT 355 FDNT 357 FDNT 362 FDNT 364 FDNT 402 FDNT 410 FDNT 430 FDNT 444 FDNT 447 FDNT 455 FDNT 458 FDNT 461 FDNT 462 FDNT 463 FDNT 464 FDNT 470 FDNT 481 FDNT 482 FDNT 484 FDNT 493

#### **FDNT 110 Careers in Food and Nutrition**

1c-0l-1sh

Career possibilities for nutrition majors are explored. Students will be guided in clarifying their professional goals and will become acquainted with the educational and experiential requirements necessary to attain these goals.

#### **FDNT 143 Nutrition and Wellness**

3c-01-3sh

Introduces the student to the major components of wellness: contemporary nutrition issues as they relate to personal food choices, physical fitness, stress management, sexually transmitted diseases, AIDS, and substance abuse. Completion of FDNT 143 fulfills the Liberal Studies Health and Wellness requirement.

#### **FDNT 145 Introduction to Nutrition**

3c-01-3sh

Provides students with an understanding of essential nutrients and their roles in the body, as well as the changing nutritional needs of an individual throughout the lifespan. Includes the impact of exercise and food choices on metabolism, body composition, and weight control; nutrition misinformation; consumer issues; commercially prepared foods; and major diseases that are affected by eating behaviors.

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#### FDNT 150 Foods

3c-01-3sh

**Prerequisite:** CHEM 101 or 111

Corequisite: FDNT 151

Basic principles of food: composition, sanitation, preparation, and preservation.

#### **FDNT 151 Foods Laboratory**

0c-31-1sh

**Prerequisite (or concurrently): FDNT 150** 

Application of basic principles of food preparation.

#### **FDNT 212 Nutrition**

3c-01-3sh

**Prerequisite:** CHEM 102 or 112

Sources and functions of nutrients, interdependence of dietary essentials, and nutritive value of an optimum diet are studied. Attention given to varied conditions in human life.

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#### **FDNT 213 Life Cycle Nutrition**

3c-01-3sh

**Prerequisite:** FDNT 212

A detailed study of nutrition which applies information from FDNT 212 to all stages of the life cycle; current issues and research as they impact on these developmental stages.

#### **FDNT 245 Sports Nutrition**

3c-01-3sh

Prerequisites: FDNT 145 or 212

Emphasizes knowledge and application of sports nutrition principles. The impact of the macro- and micro-nutrients on physical performance will be discussed in light of current scientific research and applied to realistic dietary recommendation for all types and levels of athletes.

#### **FDNT 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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#### FDNT 355 Nutrition in Disease I

3c-01-3sh

**Prerequisites:** <u>FDNT 212</u>, <u>BIOL 155</u> or <u>150/151</u>

Basic tools for diet modification: food exchange systems; interviewing techniques; nutrition assessment; professional practice; dietary treatment of caloric imbalance, diabetes, and cardiovascular disease. Fall Semester only.

#### **FDNT 357 Special Problems in Foods**

0c-41-3sh

**Prerequisite:** FDNT 150

Individual problems in foods investigated with emphasis on identified weaknesses in the student's knowledge of food.

#### **FDNT 362 Experimental Foods**

2c-31-3sh

Prerequisites: FDNT 150, FDNT 355 or concurrently, MATH 217

The experimental study of foods, relating chemical and physical properties to reactions and processes occurring in food systems.

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#### **FDNT 364 Methods of Teaching**

3c-01-3sh

**Prerequisites:** FDNT 213

Current teaching techniques and resource materials in nutrition education emphasized. Emphasis includes all forms of nutrition education, including classroom instruction, in-service training of employees, and community-based education.

#### **FDNT 402 Community Nutrition**

3c-01-3sh

#### **Prerequisite:** FDNT 212

Nutritional implications of both good and poor nutrition for all age groups in home and community situations are studied. Corrective and preventive measures emphasized. Spring semester.

#### FDNT 410 Food, Nutrition, and Aging

3c-01-3sh

**Prerequisite:** Junior status

Relationship of food to health maintenance and special dietary problems during the middle and later years.

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#### FDNT 430 Professional Topics in Food and Nutrition

3c-01-3sh

Prerequisites: FDNT 355, FDNT 364, HRIM 356, and PSYC 101

Topics include promoting food and nutrition services and programs, career planning and development, ethical challenges to dietitians, quality assurance standards, and impact on the legislative process.

#### FDNT 444 Food Composition and Biochemistry

3c-01-3sh

**Prerequisites:** CHEM 255

Basic chemistry and biochemistry of essential components of food originating from plant and animal sources.

#### FDNT 447 Nutritional Aspects of Food Technology

3c-01-3sh

**Prerequisites:** FDNT 212 and BIOL 232; junior status

A study of current known effects of food processing techniques on the nutritional value and safety of foods.

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#### FDNT 455 Nutrition in Disease II

3c-01-3sh

**Prerequisite: FDNT 355** 

Dietary treatment of disorders of the gastrointestinal, renal, cardiovascular, and hepatic systems; inborn errors of metabolism; allergies; cancer. Therapeutic quackery. Food sampling experiences. Spring semester only.

#### FDNT 458 Advanced Human Nutrition

3c-0l-3sh

Prerequisites: FDNT 355, CHEM 255 or CH351, MATH 217

In-depth study of the nutrients and their function within the cell. Incorporation of the principles of physiology and biochemistry in the study of nutrition. Emphasis placed on applying current research and evaluation of research methodology. (Does not count toward M.S. in Food and Nutrition degree requirements)

#### FDNT 461 Microwave Cooking Technology

2c-2l-3sh

The study of the electronic technology, selection, care, and use of the microwave oven. Basic physical and chemical concepts related to microwave cooking are included. Individual investigative research problems are required.

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#### FDNT 462 Advanced Experimental Foods

1c-4l-3sh

Prerequisites: FDNT 362, CHEM 231

An experimental approach to the many factors influencing the chemical and physical properties of food. Use of the scientific method in developing an individual project combining an evaluation of current literature and appropriate sensory and analytical methodology.

#### **FDNT 463 Nutrition Counseling**

2c-31-3sh

**Prerequisites:** FDNT 355, PSYC 101, FDNT 455 or concurrently

Use of intervention strategies in prevention and treatment of disease through diet. Supervised practicum (3 hours per week) counseling clientele in normal and therapeutic nutrition.

#### FDNT 464 Food and Nutrition Research Methods

3c-01-3sh

Prerequisites: FDNT 362, FDNT 458, CHEM 351, and MATH 217

An introduction to research methodology in foods and nutrition. Includes theory and techniques of physical, chemical, and instrumental analysis. Applications of these methods to food and animal models with statistical analysis of data.

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#### **FDNT 470 Human Food Consumption Patterns**

3c-01-3sh

Prerequisites: One social science course and junior standing

Exploration of human food consumption behaviors from food production to individual and societal consumption patterns. Influencing factors which will be discussed include agronomic, economic, geographic, sociologic, nutritional, political, and psychological factors. The ethics and morality of food distribution will be discussed. Students may not enroll in this course if they have taken the corresponding section of LBST 499.

#### **FDNT 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

#### FDNT 482 Independent Study

var-1-6sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office; must have earned 60 semester hours

Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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#### **FDNT 484 Senior Seminar**

1c-01-1sh

**Prerequisites:** Senior status, <u>FDNT 458</u>, 464 or concurrently

Emphasis will be on individual review of food and nutrition literature with formal presentation and discussion of current research.

#### FDNT 493 Internship

var-6-12sh

**Prerequisite:** Must have earned 57 semester hours

An opportunity for students to work away from the university in supervised job situations at health care facilities, restaurants, or other institutional food service or lodging establishments. Objective is to provide students with job-related experiences. Must meet university internship requirements.

**Note:** White uniforms including white shoes are required for all lab courses where food is prepared. Students must

meet the professional dress requirements of the department.

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## Indiana University of Pennsylvania

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# **Military Science**

#### **Department of Military Science**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

MLSC 101 MLSC 102 MLSC 203 MLSC 204 MLSC 305 MLSC 306 MLSC 407 MLSC 408 Leadership Laboratory Summer Camp

#### **MLSC 101 Introduction to Military Science**

2c-11-2sh

A study of the organization of the United States Army and the role of the military in today's society. Emphasis is on the customs and traditions of the service, the Total Army concept, and the fundamentals of leadership. Included is instruction in basic military skills, land navigation, and personal nutrition and fitness. Also, see <u>Leadership Laboratory</u>.

### **MLSC 102 Fundamentals of Military Science**

2c-11-2sh

The study of the basic knowledge regarding military service and the profession of arms. Emphasis is on basic military skills, first aid, and the development of leadership abilities through practical exercises. Included is instruction on offensive and defensive tactics, the Army writing style, and military briefings. Also, see <u>Leadership Laboratory</u>.

# MLSC 203 Fundamentals of Tactical Operations, Techniques of Leadership, and Weapons Characteristics 2c-11-2sh

Organization, techniques, resources, and capabilities involved in conducting small-unit tactical operations. Emphasis is on leadership, organization, and management techniques needed to cause a group of people to accomplish specific objectives. Characteristics of military weapons systems are taught. Students serve as leaders in Leadership Labs.

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### MLSC 204 National Security and Fundamentals of Military Topography

2c-11-2sh

The study of national security concepts, policies, and the national decision-making process with emphasis on national resources, national will, and economic factors. Included will be a study of nuclear and conventional response options. Fundamentals of military topography including the use of military maps to determine topographic features, to conduct land navigation, and to perform terrain analysis will be covered. Also, see <u>Leadership Laboratory</u>.

## $MLSC\ 305\ Fundamentals\ of\ Leadership\ and\ Modern\ Learning/Teaching\ Relationship$

3c-11-3sh

A study in practical application of principles of leadership/management as applied in classroom and field to include case studies in psychological, physiological, and sociological factors which affect human behavior; individual and group solution of leadership problems common to small units. Also, see <u>Leadership Laboratory</u>.

## MLSC 306 Study of Advance Leader Planning and Execution of Modern Combat Operations

3c-11-3sh

An analysis of leader's role in directing and coordinating efforts of individuals and small units in execution of offensive and defensive tactical missions, to include command and control systems, the military team, and

communications techniques. Also, see Leadership Laboratory.

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# MLSC 407 Management of the Military Complex to Include Fundamentals of Military and International Law 3c-11-3sh

The study of the various managerial elements needed to effectively control a military organization and the techniques used to accomplish these functions. Studies in military law and international law prepare the students for their legal responsibilities. Also, see <u>Leadership Laboratory</u>.

#### MLSC 408 Seminar in Military Analysis and Management

3c-11-3sh

Contemporary analysis of use of military in world affairs to include importance of strategic mobility and neutralization of insurgent movements. Selected management problems and situations will be presented as they relate to military justice, administration, and obligation and responsibilities of an officer. Also, see <u>Leadership Laboratory</u>.

#### **Leadership Laboratory (one afternoon per week)**

var-0sh

A practical experience designed for the attainment and application of leadership principles. Concurrently scheduled in conjunction with all Military Science courses, it provides for practical challenges in personal accomplishment, both physical and mental, and for development of team work and leadership.

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#### **Summer Camp**

var-0sh

Students attend a six-week summer camp upon completion of the first year of the Advanced Course. Time at camp is devoted to practical application of principles and theories taught during the preceding school year. While at camp, each student receives lodging, subsistence, uniforms, medical care, reimbursement for travel, and pay in amount of one-half pay of second lieutenant per month.

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## Indiana University of Pennsylvania

2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# **Computer Science**

**Department of Computer Science College of Natural Sciences and Mathematics** 

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

COSC 101 COSC 105 COSC 110 COSC 201 COSC 205 COSC 220 COSC 250 COSC 281 COSC 300 COSC 304 COSC 310 COSC 315 COSC 319 COSC 320 COSC 345 COSC 352 COSC 354 COSC 355 COSC 360 COSC 362 COSC 380 COSC 405 COSC 410 COSC 419 COSC 420 COSC 424 COSC 430 COSC 432 COSC 441 COSC 444 COSC 450 COSC 451 COSC 460 COSC 480 COSC 481 COSC 482 COSC 485 COSC 493

#### **COSC 101 Microbased Computer Literacy**

3c-01-3sh

An introductory course designed to provide students with a fundamental understanding of computers. Familiarizes students with the interaction of computer hardware and software. Emphasis is placed on the application of microcomputers, the use of productivity software (word processing, spreadsheet management, file and database management), and the social and ethical aspects of the impact of computers on society. (Does not count toward Computer Science major.)

**Note:** This course is cross-listed as <u>BEDU 101</u> and <u>IFMG 101</u>. Any of these courses may be substituted for each other and may be used interchangeably for D or F repeats but may not be counted for duplicate credit.

#### **COSC 105 Fundamentals of Computer Science**

3c-01-3sh

The first course for Computer Science majors. Required of all Computer Science students and appropriate for other Natural Sciences and Mathematics students. Topics include the fundamental concepts of computer architecture, algorithm development and analysis, programming languages, software engineering, data organization and representation, and systems software. Hands-on introduction to computer usage with an emphasis on terminology and the underlying connections within the discipline.

#### **COSC 110 Problem Solving and Structured Programming**

3c-01-3sh

(For Science, Mathematics, and Computer Science majors, and for others who have a sufficiently quantitative orientation)

Basic structure of modern digital computers; problem analysis and computer solution using flowcharting and the C++ language. Exemption or credit by examination possible.

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#### **COSC 201 Internet and Multimedia**

3c-01-3sh

**Prerequisite:** BEDU 101/COSC 101/IFMG 101 or prior exposure to word processing and electronic mail. The major focus will be on the evaluation of information and multimedia resources available on electronic networks when doing research in an area of one's choice. This information literacy course is designed for students to gain a more in-depth understanding of the information resources available electronically and of how to utilize them more

effectively in communicating. Students will learn how to access and utilize these resources for two-way communications and support for decision making while incorporating selected elements in multimedia presentations of their own design. (BEDU 201/COMM 201/COSC 201/IFMG 201/LIBR 201 may be used interchangeably for D or F repeats and may not be counted for duplicate credit.)

#### **COSC 205 Programming Languages for Secondary Education**

3c-01-3sh

**Prerequisite:** Education major

Provides an introduction to the three high-level programming languages most commonly used in secondary education: Pascal, LOGO, and BASIC, with particular emphasis on Pascal. Also includes a comparative study of the control structures and data structures present in these three languages. Intended to establish a solid foundation to prepare prospective teachers of computing courses K-12. (Note: Previous experience with microcomputers is strongly recommended. Does not count toward a Computer Science major. Credit toward graduation will not be given if this course is taken after completing 6sh or more of COSC courses.)

#### **COSC 220 Applied Computer Programming**

3c-01-3sh

**Prerequisite:** COSC 110 or equivalent

Structured programming principles and techniques, as implemented through the ANS COBOL language; program design using top-down techniques; program and project documentation; introduction to sequential file algorithms.

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#### **COSC 250 Introduction to Numerical Methods**

3c-01-3sh

Prerequisites: COSC 110, MATH 122 or 123 or 127

Algorithmic methods for function evaluation, roots of equations, solutions to systems of linear equations, interpolation, curve fitting, numerical differentiation and integration; errors in computation. Introduction to FORTRAN90 programming and introduction to the use of a mathematical software package to graph functions.

#### **COSC 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

#### **COSC 300 Assembly Language Programming**

3c-01-3sh

**Prerequisite:** COSC 110 or equivalent

An examination of structure and languages of machines; representation of data, addressing techniques, symbolic coding, assemblers, macros, etc.; problem solution using assembly language

#### **COSC 304 Interactive Internet Programming with Java**

3c-01-3sh

**Prerequisite:** COSC 110 or equivalent

An introduction to interactive Internet programming using Java. The focus is on writing platform-independent multimedia applications that are useable across the Internet. Uses a write-once, run-anywhere approach while providing adequate security. Covers event-based processing, multithreading, MIME file handling, exception handling, sandbox security, networking, and component architectures.

#### **COSC 310 Data Structures**

3c-01-3sh

Prerequisite: COSC 110

Basic concepts of data; storage systems and structures; lists, arrays, strings, hashing techniques; searching and sorting techniques; data structures in programming languages; string processing. Programming in an object-oriented language.

#### **COSC 315 Large File Organization and Access**

3c-01-3sh

**Prerequisite:** COSC 220

The organization of large computer files for business systems, information systems, and other applications. Use of advanced COBOL for efficient file access. Evaluation of file access methods and directory organization. Introduction to random file algorithms and integrated file systems.

#### **COSC 319 Software Engineering Concepts**

3c-01-3sh

**Prerequisite:** COSC 315 or permission of instructor

Includes the collection of tools, procedures, methodologies, and accumulated knowledge about the development of the software life cycle; current methodologies, tools, and techniques being applied to each phase will be discussed in depth with localized exercises given to reinforce learning of concepts.

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#### **COSC 320 Software Engineering Practice**

1c-2d-3sh

**Prerequisite:** COSC 319 or permission of instructor

Planning, design, and implementation of large software systems using software engineering techniques. Students work in project teams on real or realistic software development projects. Credit for either COSC 320 or 493 may count toward computer science major requirements for graduation but not both; the other course semester hours are free electives.

#### **COSC 345 Data Communications**

3c-01-3sh

Prerequisites: COSC 110 or 220; MATH 121 or 123; MA214 or 216 or 217; or equivalents

Communication of digital data between computers and to and from terminals and other peripherals; computer networks; small design projects or term paper.

#### **COSC 352 LAN Design and Installation**

3c-01-3sh

**Prerequisite:** IFMG 350 or OSYS 313 or any COSC course numbered 300 or higher

A study of fundamental local area networking concepts. Detailed study of the basics of local area network (LAN) technology. Comparative study of commercially available LAN systems and products. Features a hands-on laboratory implementation of a LAN. Cross-listed as IFMG 352. Either course may be substituted for the other for D/F repeats but may not be taken for duplicate credit.

#### **COSC 354 Testing and Controlling LANs**

3c-01-3sh

Prerequisite: COSC 352 or IFMG 352 or equivalent

Explores local area network (LAN) topologies and their associated protocols. Introduces ways of interconnecting, securing, and maintaining LANs. Provides students with hands-on experience in the interconnection of multiple LANs. Also presents a hands-on approach to design, testing, and administration of interconnected LANs. Cross-listed as IFMG 354. Either course may be substituted for the other for D/F repeats but may not be taken for duplicate credit.

#### **COSC 355 Computer Graphics**

2c-11-3sh

**Prerequisites:** COSC 310 and junior status

The use of computer graphics hardware and software. An overview of current applications and experience with representative software will introduce current practice. Foundations in primitives, geometry, and algorithms of passive computer graphics are the principal focus of the course. A brief introduction to interactive computer graphics will be included.

#### **COSC 360 IBM Job Control Language**

1c-0l-1sh

**Prerequisite:** COSC 220 or permission of instructor

Detailed study of the job control language (JCRLG) of the IBM OS operating system; comparison of OS with the locally available DEC operating system, VAX VMS.

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#### **COSC 362 UNIX Systems**

3c-01-3sh

**Prerequisite:** COSC 310 or permission of instructor

An introduction to the features, syntax, applications, and history of UNIX. Coverage includes utilities, system administration, development environments, and networking concerns including distributed systems, client-server computing, and providing Web services.

#### **COSC 380 Seminar on the Computer Profession**

0c-1d-1sh

**Prerequisite:** Permission (See text below)

Reading, review, and discussion of the current literature of computer science and industry trade journals; effective oral presentations; employment prospects. Should be taken the semester before an internship or the first semester of the senior year. Should not be taken at the same time as COSC 480.

#### **COSC 405 Artificial Intelligence**

3c-01-3sh

**Prerequisite:** COSC 310

An introduction to the field of artificial intelligence, i.e., the study of ideas that enable computers to process data in a more intelligent way than conventional practice allows. Covers many information representation and information processing techniques. Students will explore the underlying theory including matching, goal reduction, constraint exploration, search, control, problem solving, and logic.

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#### **COSC 410 Processor Architecture and Microprogramming**

3c-01-3sh

Prerequisites: COSC 300 and 310

The logical description of computer processor structure (architecture), with emphasis on the microprogramming approach. Project assignments using minicomputer.

#### **COSC 419 Software Development with Ada**

3c-01-3sh

Prerequisite: COSC 310

An introduction to the Ada programming language as a tool of the software engineer. Projects will use the advanced programming constructs resident in Ada, including packages, multi-tasking, generic units, exception handlers, and concurrent programming.

#### **COSC 420 Modern Programming Languages**

3c-01-3sh

Prerequisites: COSC 220 and 310

A comparative study of the properties and applications of a range of modern higher-level programming languages,

including Ada, APL, C, LISP, LOGO, Pascal, PROLOG, and SNOBOL. Comparison with older languages such as ALGOL, BASIC, COBOL, FORTRAN, and PL/I.

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#### **COSC 424 Compiler Construction**

3c-01-3sh

Prerequisites: COSC 300 and 310

Relates the formal concepts of automata and language theory to the practicality of constructing a high-level language translator. The structures and techniques used in lexical analysis, parsing, syntax directed translation, intermediate and object code generation, and optimization are emphasized.

#### COSC 430 Introduction to Systems Programming

3c-01-3sh

Prerequisites: COSC 300 and 310

Concepts and techniques of systems programming with an emphasis on assembly, linking, loading, and macro processing for user programs. Overview of higher-level language translation and system control. Programming and research projects.

#### **COSC 432 Introduction to Operating Systems**

3c-01-3sh

**Prerequisites:** COSC 300, COSC 310 or equivalents

An introduction to the principles of operating system design and implementation. Topics include interrupt service, process states and transitions, spooling, management of memory and disk space, virtual storage, scheduling processes and devices, and file systems.

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#### **COSC 441 Data Base Management**

3c-01-3sh

Prerequisite: COSC 315

A review of database concepts. Detailed study of database management approaches. Comparative study of commercially available database management systems. Project on the locally available database systems.

#### **COSC 444 Productivity Tools and Fourth Generation Language**

3c-01-3sh

Prerequisite: COSC 441 or IFMG 450

Develop an understanding of productivity issues and how Fourth Generation Languages (4GL) improve productivity as contrasted with 3GLs. Advances in the programming paradigm such as event-driven programming, objects, reusability, graphical user interface (GUI) design and development, information systems based on relational databases, and client/server technology are addressed. Students will gain a practical experience with these concepts through an in-depth study of Visual Basic and the development of a GUI interface to a relational database using Visual Basic.

#### **COSC 450 Applied Numerical Methods**

3c-01-3sh

**Prerequisites:** COSC 250, MATH 241, or equivalents

Polynomial approximations using finite differences, with applications in numerical integration and differentiation. Numerical solution of initial value ordinary differential equations. The APL language will be introduced and used, along with FORTRAN, in programming selected algorithms.

#### **COSC 451 Numerical Methods for Supercomputers**

3c-01-3sh

**Prerequisites:** MATH 121 and 122, or MATH 123 or 127, MATH 171, COSC 250

Supercomputers make use of special computer architectures—vector and parallel processors—in order to achieve the fastest processing speed currently available. Students will be introduced to these features and will learn how numerical

algorithms can be constructed to exploit supercomputers' capabilities. Students will gain practical experience in programming for the Cray, YMP, in incorporating existing scientific software packages into user-written programs, in submitting remote jobs to the Pittsburgh Supercomputer Center, and in producing animated graphical output to summarize the typically large volume of output data generated by large scientific programs. (Also offered as MATH 451; may not be taken for duplicate credit)

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#### **COSC 460 Theory of Computation**

3c-01-3sh

**Prerequisites:** COSC 310 or consent of instructor

Formal methods for describing and analyzing programming languages and algorithms. Backus-Naur forms; productions; regular expressions; introduction to automata theory; Turing machines; recent concepts in algorithm theory computability.

#### **COSC 480 Seminar on Technical Topics**

0c-11-1sh

**Prerequisites:** See text below

Reading, review, and discussion of the current literature of computer science and industry professional and technical journals; oral presentations. Should be taken the last semester of the senior year. Should not be taken at the same time as COSC 380.

#### **COSC 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

A seminar in advanced topics of computer science; content will vary depending on interests of instructor and students. May be repeated for additional credit. Special Topics numbered 481 are primarily for upper-level undergraduate students.

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#### **COSC 482 Independent Study**

var-1-4sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval based on academic appropriateness and availability of resources.

#### **COSC 485 Independent Study**

var-12sh

**Prerequisites:** Permission of a computer science faculty member who agrees to supervise the student's project. Arrangements for selection of a specific topic must be made.

#### **COSC 493 Internship in Computer Science**

var-12sh

**Prerequisites:** COSC 300, 310, 315, 319, 380, other courses depending on type of internship position desired, completion of application, and selection by committee

Positions with participating companies provide students with paid experience in computer science under the supervision of the companies and faculty. Requirements include three on-site consultations, two university consultations, completion of progress reports, oral presentation, and a final cumulative paper. Offered only to students during the second semester and summer of the junior year or the summer and the first semester of the senior year. No more than 4sh of COSC 493 may be applied toward the semester-hour requirements for the major in Computer Science.

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# **Information Management**

Department of Management Information Systems and Decision Sciences Eberly College of Business and Information Technology

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

<u>IFMG 101 IFMG 201 IFMG 205 IFMG 251 IFMG 255 IFMG 261 IFMG 281 IFMG 300 IFMG 350 IFMG 352 IFMG 354 IFMG 370 IFMG 372 IFMG 382 IFMG 450 IFMG 451 IFMG 455 IFMG 470 IFMG 480 IFMG 481 IFMG 482 IFMG 485 IFMG 493</u>

Note: All courses at the 300 and 400 level are open only to students with junior or senior standing. All students, regardless of major or program affiliation, must meet course prerequisite requirements in order to enroll for a given course. Business majors (except those majoring in Business Education) who have not achieved Junior Standing are normally not permitted to enroll in 300- or 400-level courses.

#### **IFMG 101 Microbased Computer Literacy**

3c-01-3sh

An introductory course designed to provide students with a fundamental understanding of computers. Familiarizes students with the interaction of computer hardware and software. Emphasis is placed on the application of microcomputers, the use of productivity software (word processing, spreadsheet management, file and database management), and the social and ethical aspect of the impact of computers on society.

**Note:** This course is cross-listed as <u>BEDU 101</u> and <u>COSC 101</u>. Any of these courses may be substituted for each other and may be used interchangeably for D or F repeats but may not be counted for duplicate credit.

#### IFMG 201 Internet and Multimedia

3c-01-3sh

Prerequisite: COSC/IFMG 101 or prior exposure to word processing and electronic mail

The major focus will be on the evaluation of information and multimedia resources available on electronic networks when doing research in an area of one's choice. This information literacy course is designed for students to gain a more in-depth understanding of the information resources available electronically and of how to utilize them more effectively in communicating. Students will learn how to access and utilize these resources for two-way communications and support for decision making while incorporating selected elements in multimedia presentations of their own design. (BEDU/COMM/COSC/IFMG/LIBR 201 may be used interchangeably for D or F repeats and may not be counted for duplicate credit.)

#### **IFMG 205 Foundations of MIS**

3c-01-3sh

Prerequisite: <a href="Mailto:COSC/IFMG 101">COSC/IFMG 101</a>

An introductory course designed to provide students with a fundamental understanding of MIS. Systems theory, quality, decision making, and the organizational role of information systems are introduced. Information technology, including basic programming skills, is stressed. Concepts of organization, information system growth, telecommunications, and re-engineering are introduced.

#### IFMG 251 Business Systems Analysis and Design

3c-01-3sh

Prerequisite: ACCT 201 and IFMG 205

Involves teaching the tools and techniques required for the analysis and the design of business systems. The major steps in the system's development life cycle are presented along with practical applications from the major subsystems of typical business organizations. Issues related to personnel, hardware, software, and procedures are explored as students work individually and in project teams to solve typical business application problems.

#### IFMG 255 Business Applications in COBOL

3c-01-3sh

Prerequisites: ACCT 201 and IFMG 241 or 300

Introduces the student to the COBOL programming language as it applies to business organizations and their applications. Structured COBOL concepts and methods are taught as the student learns how to solve business problems using computers. The student will be involved using files, reports, and tables to produce a variety of outputs utilized in operating and managing business activities.

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#### IFMG 261 Micro Database Systems

3c-01-3sh

Prerequisite: COSC/IFMG 101

The fundamentals of database management including different database models and database design issues will be examined. Emphasizes the use of various tools of relational database software, including report generators, screen builders, and query facilities. Design techniques and software tools will be used in creating a database application. Intended as an elective for business students who are not majoring in MIS. MIS majors will not be allowed to count this course towards satisfying their graduation requirements.

#### **IFMG 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

#### IFMG 300 Information Systems: Theory and Practice

3c-01-3sh

Prerequisites: COSC/IFMG 101, ACCT 202

Includes basic MIS concepts, fundamentals, and practices. Broad areas of coverage are principles, the computer as a problem-solving tool, Computer-Based Information Systems (CBIS), organizational information systems, and Information Systems management.

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#### IFMG 350 Business Systems Technology

3c-01-3sh

Prerequisite: COSC 220 or IFMG 255

Student is taught fundamental and advanced concepts of computer hardware and a procedure for evaluation and acquisition of computer hardware.

#### IFMG 352 LAN Design and Installation

3c-01-3sh

Prerequisite: IFMG 350 or OSYS 313 or any COSC course numbered 300 or higher

A study of fundamental local area networking concepts. Detailed study of the basics of local area network (LAN) technology. Comparative study of commercially available LAN systems and products. Features a hands-on laboratory

implementation of a LAN. Cross-listed as COSC 352. Either course may be substituted for the other for D/F repeats but may not be taken for duplicate credit.

#### **IFMG 354 Testing and Controlling LANs**

3c-01-3sh

Prerequisite: COSC 352 or IFMG 352 or equivalent

Explores local area network (LAN) topologies and their associated protocols. Introduces ways of interconnecting, securing, and maintaining LANs. Provides students with hands-on experience in the interconnection of multiple LANs. Also presents a hands-on approach to design, testing, and administration of interconnected LANs. Cross-listed as COSC 354. Either course may be substituted for the other for D/F repeats but may not be taken for duplicate credit.

#### IFMG 370 Advanced COBOL

3c-0l-3sh

Prerequisite: <u>COSC 220</u> Corequisite: <u>IFMG 350</u>

A continuation of introductory COBOL with an emphasis on structured methodology of program design, development, testing, implementation, and documentation of common business-oriented applications. It includes a heavy emphasis on the techniques and concepts of the table processing, file organization, and processing alternatives, internal and external sorting, subroutines, and application development for both the batch and on-line systems. Micro Focus COBOL software is utilized.

#### **IFMG 372 Microcomputer Applications**

3c-01-3sh

**Prerequisites:** IFMG 350, COSC 220, ACCT 201, or by permission

Demonstrates how to use the microcomputer in business and how to provide technical assistance to users of the microcomputer. Emphasis will be placed on integrating software and interfacing with mainframe computers or with minicomputers. Topics covered include microcomputer hardware, microcomputer operating systems, local area networks, and microcomputer software tools.

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#### IFMG 382 Auditing for EDP Systems

3c-01-3sh

Prerequisites: ACCT 201, COSC 220, or IFMG 255

Emphasizes the responsibility of the systems analyst to include in systems design the proper management and financial controls and audit trails in business information systems. The design of controls for application programs and systems is covered. Audit software packages are examined.

#### IFMG 450 Data Base Theory and Application

3c-01-3sh

**Prerequisites:** IFMG 370, upper-division students only

After learning data structures, the student will then apply them to CODASYL compatible database management systems, TOTAL, and IBM's database management system. Student must develop and use a database as part of requirement. [Course revision in process]

#### **IFMG 451 Systems Analysis**

3c-01-3sh

Prerequisites: IFMG 350 and IFMG 255 or COSC 220

Develops an understanding of concepts and techniques involving conventional and structured approaches to analyzing problems of business information systems and systems definition feasibility, as well as quantitative and evaluative techniques of business information systems analysis.

#### **IFMG 455 Data Warehousing and Mining**

3c-01-3sh

Prerequisites: IFMG 450 or IFMG 261 or COSC 441, and MATH 214 or 216

Introduces students to the strategies, technologies, and techniques associated with this growing MIS specialty area. Composed of two main parts. In the first part, students will learn the basic methodology for planning, designing, building, using, and managing a data warehouse. In the second part, students will learn how to use different data mining techniques to derive information from the data warehouse for strategic and long-term business decision making.

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#### IFMG 470 Systems Design

3c-0l-3sh

**Prerequisite: IFMG 451** 

Students learn tools and techniques for design of a business system. Along with classroom discussions of principles and techniques for analyzing, designing, and constructing the system, students will formulate system teams to analyze the problems of an existing business information system, to design an improved system, and to control implementation of a new system.

#### IFMG 480 Distributed Business Information Systems

3c-01-3sh

**Prerequisite:** IFMG 350

A study of the techniques involved in planning, design, and implementation of distributed processing systems. Distributed marketing, financial, and corporate accounting systems are included.

#### **IFMG 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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#### **IFMG 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through adviser, faculty member, department chairperson, dean, and provost's office Individual research and analysis of contemporary problems and issues in a concentrated area of study under the guidance of a senior faculty member. Approval is based on academic appropriateness and availability of resources.

#### **IFMG 485 Seminar: IS Current Topics**

3c-01-3sh

Prerequisites: <u>IFMG 300</u>, senior standing

Current topics and issues in information systems in the business environment are addressed through systematic coverage of current literature and/or electronic sources. Practitioner publications and academic journals integrate emerging technologies and information issues with identification of their impact on the management of business organizations. Not a capstone requirement but a vehicle to explore a variety of topics in the field.

#### IFMG 493 Internship in MIS

var-3-12sh

**Prerequisites:** IFMG 370, consent of department chairperson and dean

Positions with participating business, industry, or governmental organizations provide the student with experience in systems analysis. **Note:** Internship IFMG 493 can be taken, if the student qualifies, as a general elective. It does not fulfill the major-area elective requirement.

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## **Communications Media**

#### **Department of Communications Media College of Education**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

COMM 101 COMM 150 COMM 201 COMM 205 COMM 230 COMM 240 COMM 249 COMM 251 COMM 271 COMM 281 COMM 301 COMM 302 COMM 303 COMM 305 COMM 307 COM

#### **COMM 101 Communications Media in American Society**

3c-01-3sh

Required of Communications Media majors

An introduction to the evolution, status, and future of communications media. Students explore intrapersonal communication through self-assessment, values clarification, and feedback; interpersonal communication through interviews, observations, case studies, and gaming; and mass communications through the examination of the processes and the technology utilized to disseminate and manage information. Career paths, field applications, professional associations, and the primary literature are investigated. (Previous title: Survey of Communications Media)

#### **COMM 150 Aesthetics and Theory of Communications Media**

3c-01-3sh

Prerequisite: <u>COMM 101</u>

Examines the theoretical assumptions of sight, sound, and motion as applied to the design of communication products for different media formats. Within the course, strategies for creative composition are demonstrated. Psychological and physiological implications of images are discussed. (Offered as CM200 Images prior to 1999-2000)

#### **COMM 201 Internet and Multimedia**

3c-01-3sh

**Prerequisite:** BEDU 101/COMM 101/COSC 101/IFMG 101 or prior exposure to word processing and electronic mail The major focus will be on the evaluation of information and multimedia resources available on electronic networks when doing research in an area of one's choice. This information literacy course is designed for students to gain a more in-depth understanding of the information resources available electronically and of how to utilize them more effectively in communicating. Students will learn how to access and utilize these resources for two-way communications and support for decision making while incorporating selected elements in multimedia presentations of their own design. (BEDU 201/COMM 201/COSC 201/IFMG 201/LIBR 201 may be used interchangeably for D or F repeats and may not be counted for duplicate credit.)

#### **COMM 205 Media Presentation Skills**

3c-01-3sh

**Prerequisites:** COMM 150, CM majors only

Introduces students to basic presentation skills, emphasizing the use of media to enhance presentations. Students will

research, organize, and write presentations, design appropriate media, and deliver presentations in various settings, including to large groups, on camera and in groups with other students.

#### **COMM 230 Issues in International Communication**

3c-01-3sh

A survey of international communications with particular emphasis on communications flow, four-press theories, ownership, structure and access to media, government/media relationships, and the impact of communications on developed and developing countries.

#### **COMM 240 Communications Graphics**

3c-01-3sh

**Prerequisites:** COMM 101 or permission

An introduction to graphic design concepts and related processes and techniques for a variety of forms of presentation media including television, multimedia, and on-line communications for educational, corporate training, and communications specialists. Both two- and three-dimensional design, and basic animation concepts will be explored. Hands-on experiences using a variety of graphic software applications. (Offered as CM440 prior to 1999-2000)

#### Back to Top

#### **COMM 249 Basic Audio Recording Techniques**

3c-01-3sh

**Prerequisite:** COMM 101 or permission

Theory and practice of recording sound, developing an understanding of the language of sound recording as well as the ability to make sound recordings. Offers exposure to recording for various media including radio, music, motion pictures, television, and multimedia production. Material also appropriate for teachers who wish to make use of tape recorder in the classroom. Students will gain hands-on experience through labs and projects to be completed outside of class. Students will be expected to provide an audio tape recorder. (Offered as CM449 prior to 1999-2000)

#### **COMM 251 Television Production**

3c-01-3sh

**Prerequisite:** COMM 101 or permission

Develops basic skills in television production and direction. Consideration of operating problems of a television studio, as well as functions, limitations, and capabilities of television equipment and facilities. (Offered as CM451 prior to 1999-2000)

#### **COMM 271 Beginning Photography**

3c-01-3sh

**Prerequisite:** COMM 101 or permission

Working with black-and-white materials, the student learns to operate a camera, develop film, make contact prints and enlargements, and mount prints for display. Ancillary topics are introduced such as filtration, print spotting, flash, and the use of accessory lenses. Student is required to have a 35mm camera, preferably a single-lens reflex, with fully manual focusing and exposure capability.

#### **COMM 281 Special Topics**

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

#### **COMM 301 Technology for Learning and Instruction**

3c-01-3sh

**Prerequisite:** EDSP 202 or permission

Preservice teachers gain competencies in selection, evaluation, and utilization of various instructional technologies. Application of new technologies to teaching and learning will be emphasized, along with performance-based activities in instructional design. A major portion of the course is devoted to the integration of computer-based instructional activities in the school curriculum. Does not count towards semester hours needed for Communications Media major.

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#### **COMM 302 Research in Communications Media**

3c-01-3sh

**Prerequisite:** COMM 150, ENGL 101 and ENGL 202 (C or better)

Designed to provide knowledge of the resource materials and research strategies used in the communications media field. Students will design basic data gathering instruments, collect data, and assimilate information from various sources and data into communication products, services, or documents.

#### **COMM 303 Scriptwriting**

3c-01-3sh

Prerequisite: COMM 101, ENGL 101 and ENGL 202 (C or better) or permission of instructor

An introduction to the design of media materials and script writing. Style and techniques of writing will be analyzed. Classroom emphasis is on writing, critiques, and revision of designs and scripts. Scripts for audio, multimedia presentations, and motion picture and television productions will be written.

#### **COMM 305 Electronic Media Programming and Sales**

3c-01-3sh

**Prerequisite:** COMM 150

Explores two primary functions of the electronic media: providing programming for audiences and providing economic viability to media outlets by selling commercial time to clients. Students will explore topics such as program development, scheduling, and promotion. Also explores the basic strategies used in the electronic media to sell commercial time and the use of audience and ratings analysis in the processes of programming and sales.

#### **COMM 330 Instructional Design for Training and Development**

3c-01-3sh

Prerequisites: COMM 101, 240, ENGL 101 and ENGL 202 (C or better) or permission

Examines the systems approach for the design, development, and evaluation of instructional material. Students will learn about the history of instructional design and development and the current status of the field. Each student will produce a self-instructional prototype that will require the student to systematically and creatively apply the concepts and rules learned in the class. (Previous title: Communications Media in Training and Education)

#### **COMM 335 Communications Consulting and Project Management**

3c-01-3sh

**Prerequisite:** COMM 101

Presents the theoretical views and clinical applications of consulting skills and practices associated with and needed by communication professionals. Presented will be the functions and role of the consultant, the client's perspective on consulting, hiring a consultant, ethics in consulting, personal assessment tests, and related literature and models.

#### **COMM 340 Advanced Communication Graphics**

3c-01-3sh

**Prerequisite:** COMM 240, permission

Provides in-depth experience in planning and preparing graphic materials commonly used in the communications profession; graphic materials include design, photosketching, lettering, slide titling and duplication, preparation of camera-ready art, lithographic film and master layout sheets, professional slide flat production and photocopy, large-format transparency production, color key, and color systems. (Offered as CM441 prior to 1999-2000)

#### **COMM 345 Television Criticism**

3c-01-3sh

**Prerequisite:** COMM 150 or permission of instructor

The medium of television offers a unique environment for development and delivery of information, entertainment, and news. Explores and analyzes television programming. Includes examination of genres ranging from situation comedy to drama, to mini-series and made-for-TV movies.

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#### **COMM 349 Radio Production**

3c-01-3sh

**Prerequisite:** COMM 150 or permission of instructor

An introduction to production techniques as they pertain to radio. The student will be exposed to programming, scripting, producing programs, intros, outros, commercials, public service announcements, station identifications, and promotional announcements. Also deals with the interaction of a radio station with national networks and with the real-life concerns of deadlines. (Offered as CM405 prior to 1999-2000)

#### **COMM 351 Advanced Video Production**

3c-01-3sh

**Prerequisite:** : COMM 251 and COMM 303 or COMM 403

A production course that emphasizes advanced field production techniques. Some of the topics covered will include field lighting, video post-production editing with A-B roll, on-line editing, and nonlinear editing. Students will gain hands-on experience through projects and field trips.

#### **COMM 354 Broadcast Regulation**

3c-01-3sh

**Prerequisite:** COMM 150 or permission of instructor

Delves into the areas of law affecting broadcasters. Topics covered are laws pertaining to cable television, station licensing and renewal, political broadcasting, libel, copyright, the right of reply, and privacy. The historical development of the FCC and its jurisdictions will also be examined. Case studies will be discussed along with the relevancy of some laws as they pertain to today's society. (Offered as CM454 prior to 1999-2000)

#### **COMM 371 Consulting Practices in Communications**

3c-01-3sh

**Prerequisites:** COMM 271, permission

Students will develop camera and print-making skills to the degree that they can produce salon-quality photographic prints. Students will understand the photographic processes utilized in producing a high-quality negative and print to the extent that they can manipulate those processes to communicate an intended message with their photographs. Emphasis will be on camera and print control as well as composition and negative and print manipulation. (Offered as CM472 prior to 1999-2000)

#### **COMM 375 Mass Media and Behavior**

3c-01-3sh

**Prerequisites:** PSYC 101 and junior or senior status

Theory and research on the influence of the mass media on human behavior and attitudes. Topics include the effects of news and political advertising on public opinion; the effects of racist and sexist portrayals; and the effects of violence and pornography on aggressive behavior. (Also offered as <u>PSYC 375</u>; may be taken only once)

#### COMM 380 The History of African Americans in Film

3c-01-3sh

Traces the historical development of the roles of African Americans in film and television. Students examine the early stereotypic portrayals of this group, the origins of these stereotypes, and the ongoing changes, positive and negative, that have occurred regarding the media representation through research, film, and archetypal analysis, observation, and discussion. The new generation of African American filmmakers and their creative efforts to promote more realistic portrayals are analyzed.

#### **COMM 390 Practicum in Communications**

var-1-3sh

**Prerequisites:** COMM 101, written permission

An opportunity with credit for students to make contributions to department and campus media-related facilities and offices including WIUP-TV, WIUP-FM, *Penn*, Public Relations, and Media Resources. Repeatable for a maximum of 6sh.

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#### **COMM 395 Career Planning in Communications Media**

1c-0l-1sh

**Prerequisite:** Minimum 20 COMM semester hours

Serves as a primary skill-building and strategy-seeking experience for the internship program and later career entry and growth. Extensive writing, research, and individual counseling are involved. Travel may be necessary.

#### **COMM 403 Broadcast Newswriting**

3c-01-3sh

**Prerequisites:** COMM 101, 240, ENGL 101 and ENGL 202 (C or better) or permission of instructor Acquaints students with the various styles and script formats used in writing news scripts for radio and television. Includes instruction in writing news stories for radio and television and an introduction to broadcast news production. Students will practice and work to improve writing skills in this area of broadcast writing.

#### **COMM 408 Media Field Studies**

3c-01-3sh

**Prerequisites:** COMM 101, junior standing, and permission of instructor

A hands-on course designed to help the students learn about the production process involving on-location production. Will have three distinct phases: students will begin with research and pre-production tasks on campus; students may travel to a remote site to collect additional information and images and use those images to complete a production; and students will be responsible for travel expenses. (Offered as CM 401 prior to 2000-2001)

#### **COMM 440 Multimedia Production**

3c-0l-3sh

**Prerequisites:** COMM 240 or permission of the instructor

The student will learn the processes and techniques of planning, designing, and producing used with interactive multimedia. Provides hands-on experiences in the use of graphics, audio, animation, video, and authoring software applications to produce an aesthetically acceptable product that meets specific objectives. Designed to meet the needs of educational media, corporate training, and communications specialists.

#### **COMM 445 Applications and Techniques of Motion Pictures**

3c-01-3sh

**Prerequisites:** COMM 150 or permission of instructor

A survey of the role that motion picture film production plays in society. Major emphasis will be placed on the variety of applications with special consideration given to motion pictures as a tool to support research.

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#### **COMM 449 Advanced Audio Recording Techniques**

3c-01-3sh

Prerequisites: **COMM 249**, permission

Sound recording utilizing advanced techniques and concentrating on specific applications. Student participates in an intensive lab experience utilizing the most advanced equipment available. Emphasis will be on application, editing, signal processing, and multi-track recording. Student is expected to produce a sound recording for a specific use of professional quality. (Offered as CM450 prior to 1999-2000)

#### **COMM 451 Broadcast News Process**

3c-01-3sh

**Prerequisites:** COMM 251, COMM 349, permission

Reporting and presenting radio and TV news programs. Analysis of news and public affairs broadcasting. (Offered as

CM453 prior to 1999-2000)

#### COMM 460 Emerging Trends in Communication Technology

3c-01-3sh

**Prerequisites:** COMM 150

An introduction to the ever-changing world of telecommunication technologies, focusing on modern, computer-driven modes of information exchange. Students will get an opportunity to synthesize several of the technologies covered in the course and integrate them into a workable solution to a practical telecommunication problem. (Previous title: Alternative Systems of Communications)

#### **COMM 470 Management Practices in Electronic Communications**

3c-01-3sh

Prerequisites: COMM 150, any COMM Writing Intensive course, and junior or senior standing

Presents the theory and practice of media management. Areas covered will include problem-solving, documenting and reporting, career systems, budgeting, personnel, ownership, unionization, market analysis, and special topics as directly related to communications media industries. Students will conduct case study research related to their career direction.

#### **COMM 471 Electronic Imaging**

3c-01-3sh

**Prerequisites:** COMM 271 or permission

An introduction to the use of electronic still photography (ESP) for the capture, recording, and transfer of still images and the use of computers for the storage, manipulation, and output of color and black and white photography. Extensive training in the use of software packages for image enhancement, restoration, and manipulation will be provided. Students will learn the applications of this technology to the print media and will examine the ethical and legal issues of image manipulation. (Offered as CM479 prior to 1999-2000)

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#### **COMM 475 Senior Portfolio Presentation**

3c-01-3sh

**Prerequisites:** Communications Media majors only, 24 COMM credits and COMM 395

Students will compile and present a series of works produced through previous Communications Media courses and activities. The result will be a portfolio suitable for presentation to a potential employer. The portfolio may include examples of student works from a variety of subject areas.

#### **COMM 480 Seminar in Communications Media**

3c-01-3sh

**Prerequisites:** COMM 302, junior or senior standing, other prerequisites as appropriate to course content A seminar in selected communications issues or problems. Includes the reading and review of the current literature as appropriate to the major topic presented in the seminar. Students will be involved in the research and oral defense of a major research paper.

#### **COMM 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

#### **COMM 493 Internship**

var-6, 9, 12sh

#### Prerequisites: **COMM 395**, department approval

Supervised professional summer work experience in communications media. Sites reflect the academic goals of the department and are approved and administered by a department coordinator. Location, duties, length of internship, and hours are individually tailored to student career goals. Sites represent wide application of process and technology of communications in business, education, allied health, or other agencies. Students must complete 40 hours of the internship work experience per semester hour earned. A maximum of 15sh is applicable to an undergraduate degree program from any combination of internship and practicum experience.

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# Library

The University Libraries Academic Affairs Division

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

#### <u>LIBR 151 LIBR 201 LIBR 281 LIBR 481</u>

#### LIBR 151 Introduction to Library Resources

var-1sh

A lecture/laboratory course (fourteen one-hour classes) which provides an introduction to the resources of a university library, how those resources are organized, and how to use those resources effectively.

#### LIBR 201 Internet and Multimedia

3c-01-3sh

Prerequisite: <a href="BEDU/COSC/IFMG">BEDU/COSC/IFMG</a> 101 or prior exposure to word processing and electronic mail
The major focus will be on the evaluation of information and multimedia resources available on electronic networks when doing research in an area of one's choice. This information literacy course is designed for students to gain a more in-depth understanding of the information resources available electronically and of how to utilize them more effectively in communicating. Students will learn how to access and utilize these resources for two-way communications and support for decision making while incorporating selected elements in multimedia presentations of their own design. (BEDU/COMM/COSC/IFMG/LIBR 201 may be used interchangeably for D or F repeats and may not be counted for duplicate credit.)

#### **LIBR 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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#### **LIBR 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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## **Consumer Services**

#### Department of Human Development and Environmental Studies College of Health and Human Services

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

<u>CNSV 101 CNSV 281 CNSV 315 CNSV 413 CNSV 416 CNSV 421 CNSV 433 CNSV 481 CNSV 482 CNSV 493</u>

#### **CNSV 101 Personal and Family Management**

3c-01-3sh

Management as a system and its relationship to individuals and families. Formulation of goals, values, and standards; use of decision-making process; utilization of resources.

#### **CNSV 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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#### **CNSV 315 Consumer Economics and Family Finance**

3c-01-3sh

Economic, sociological, and psychological principles are applied to family money management problems. Information needed to manage finances effectively and to become a rational consumer is presented.

#### **CNSV 413 Problems in Consumer Economics**

3c-01-3sh

**Prerequisite:** CNSV 315 or Economics

Problems of consumer-seller relationships studied with emphasis given to effects of current economic and social forces. Governmental and private protection agencies which aid the consumer are reviewed. Individual investigations required. Fall semester only.

#### **CNSV 416 Problems in Family Finance**

3c-01-3sh

**Prerequisite:** CNSV 315

In-depth theories and principles in personal and family finance and the rights and responsibilities of consumers are emphasized. Opportunities are provided for students to explore specific areas of interest. Spring semester only.

#### **CNSV 421 Senior Seminar**

2c-01-2sh

**Prerequisites:** Completion of 90sh

Knowledge gained in major and outside concentration courses is applied to individual career goals. Students have the

opportunity to pursue related areas not directly covered in previous coursework, with emphasis upon independent research, analytical thinking, and communications skills.

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#### **CNSV 433 Study Tour**

var-1-6sh

**Prerequisite:** Upper-level standing

An opportunity is provided to visit business establishments and cultural centers concerned with household equipment, furnishings, textiles, clothing, and housing in America as well as abroad. Museums, factories, designers' showrooms, distribution centers, stores, cultural events, and seminars are included. May be repeated for a total of 6sh. (Cross-listed as FSMR/INDS 433.)

#### **CNSV 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

#### **CNSV 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Particular consumer considerations are independently investigated in the area of housing, home equipment, interior design, clothing, and textiles or in the management of resources. Course may be repeated for a total of 3sh. Students meet with a faculty member at least 5 hours per semester hour.

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#### **CNSV 493 Internship**

var-1-12sh

**Prerequisites:** Approval of instructor and department chairperson; upper-level standing

A practical experience related to the student's major area of study with objectives, supervised experience, and evaluation. Course may be repeated for a total of 12sh.

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## French

# **Department of French and German College of Humanities and Social Sciences**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

FRNC 101 FRNC 201 FRNC 202 FRNC 203 FRNC 253 FRNC 254 FRNC 281 FRNC 301 FRNC 331 FRNC 341 FRNC 353 FRNC 361 FRNC 370 FRNC 373 FRNC 375 FRNC 376 FRNC 390 FRNC 431 FRNC 432 FRNC 441 FRNC 460 FRNC 463 FRNC 462 FRNC 481 FRNC 482 FRNC 493

#### FRNC 101 Basic French

4c-01-4sh

For the student beginning the study of French or who needs remedial study before beginning the intermediate sequence. Primary emphasis is on the mastery of French pronunciation and oral communication. Students will learn to converse in simple present time and become acquainted with location of Francophone populations and elements of their daily lives. Attendance and Foreign Language Learning Center practice is required.

## FRNC 201 College French I

3c-01-3sh

The initiation of college-level mastery of basic language skills and exposure to cultural materials. Supplements beginners' oral competency with more advanced reading and writing. Emphasis will be on narration in the past. Efforts are made to practice skills and comprehend texts in authentic cultural contexts. Liberal Studies elective credit is given for this course.

#### FRNC 202 College French II

3c-01-3sh

Prerequisite: FRNC 201 or equivalent

Continues the college-level mastery of language skills. The ability to narrate present and past is intended to express opinion and hypothesis. Emphasis is on acquiring greater skill in reading literary and cultural texts. Liberal Studies elective credit is given for this course.

#### FRNC 203 Accelerated College French

6c-0l-6sh

Develops listening and speaking skills through an immersion method. Students use present, past, and future to indicative tenses in intensive aural/oral interaction and are expected to make use of the audio and video capabilities of the Foreign Language Learning Center on a weekly basis. Liberal Studies elective credit is given for this course.

#### FRNC 253 Intermediate Composition and Conversation

3c-01-3sh

Intermediate course in grammar, reading, composition, and some oral work. Can substitute for or be in addition to FRNC 202 for majors or serious students.

#### FRNC 254 Civilization of Modern France

3c-01-3sh

#### Prerequisite: FRNC 202 or equivalent

A study of modern French culture and civilization—social institutions, government, industry, economics, and geography. Development of all language skills for use in business situation in French-speaking environment. Emphasis will be on acquisition of an active knowledge of the business world.

#### **FRNC 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

#### FRNC 301 Portraits of Women in the French Novel

3c-01-3sh

Explores the polarity of the treatment of female characters in the French novel. Explores differences of treatment by male and female writers through inclusion of women novelists. Provides a chronological survey of the development of the novel in France from the seventeenth to the twentieth centuries.

#### FRNC 331 Intermediate French Conversation

3c-01-3sh

**Prerequisite:** FRNC 202

Emphasis will be placed on development of communication skills, vocabulary, and discourse strategies. Activities include directed conversations, video- and audio-based listening comprehension, and role play and other simulations.

#### FRNC 341 French Grammar

3c-01-3sh

**Prerequisite:** FRNC 202

Students will review and refine their knowledge of French grammatical structure, including question formation, description, comparison, and present and past narration. Emphasis is placed on written expression.

#### FRNC 353 Intermediate French Composition

3c-01-3sh

**Prerequisite:** FRNC 202

Includes intensive practice in written expression in French. Emphasis is placed on the development of communicative skills as well as knowledge of French structure. Taught in French.

#### FRNC 354 Business French

3c-01-3sh

**Prerequisite:** FRNC 254 or permission of instructor

The study of principles and practices of business communication in French secretarial and administrative procedures with an emphasis on the planning and writing of business letters, reports, and abstracts of articles in business and economics.

#### FRNC 370 Introduction to French Literature

3c-01-3sh

**Prerequisite:** FRNC 341 or FRNC 353

Designed to develop students' French reading skills, to provide tools for literary interpretation of texts, and to introduce major literary works of France and the French-speaking world.

#### FRNC 373 French Civilization

3c-01-3sh

Prerequisite: FRNC 202

Covers the historical development of French high culture exclusive of literary genres (i.e., prose, poetry, theater). Presents an overview of political and intellectual history, music, art, and architecture. Certain content areas will

receive special emphasis at the instructor's discretion.

#### FRNC 375 French Literature from Medieval through 17th Century

3c-01-3sh

**Prerequisite:** FRNC 370

Introduces students to the major developments in French literature and thought from the Medieval through the seventeenth century. Includes an overview of major French literary genres: novel, poetry, and theater. Readings and discussion are in French.

#### FRNC 376 French Literature from 18th through 20th Century

3c-01-3sh

**Prerequisite:** FRNC 370

Introduces students to major developments in French literature and thought from the eighteenth century to the present. Includes an overview of major French literary genres: novel, poetry, and theater. Readings and discussion will be in French.

#### FRNC 390 Teaching Elementary School Content in French and German

3c-01-3sh

**Prerequisite:** Permission of the instructor

Students will explore issues relevant to the teaching and learning of French and German in the elementary school (grades K-8). Current theories of child second-language acquisition will be treated. These theoretical foundations will form the basis for the development of objectives and activities which integrate the teaching of foreign language and culture with elementary school subject content. Students will gain practical experience in planning and implementing lessons, assessing student learning, and selecting materials appropriate to the needs and interests of young learners.

#### FRNC 431 Advanced French Conversation

3c-01-3sh

**Prerequisite:** FRNC 331

Builds on the communication skills acquired in FRNC 331. Focuses on the development of advanced vocabulary and discourse strategies. Activities will include in-depth discussion and debate of current events and real-life problems.

#### FRNC 432 French Phonetics and Phonology

3c-01-3sh

**Prerequisite:** FRNC 331 or equivalent

Presents an introduction to the sound system of French and provides training in standard French pronunciation. Basic issues on phonological theory and description will be examined. Students will refine their own pronunciation of French through classroom practice, oral presentations, and tape recordings.

#### FRNC 441 Advanced French Grammar

3c-01-3sh

**Prerequisite:** FRNC 341

Students will build upon their previous knowledge of French grammar, with a view to perfecting their control of more complex structures. These structures include complex sentences, the subjunctive, hypothetical statements, and passive voice. Emphasis is placed on written expression.

#### FRNC 460 Studies in French Literature

3c-01-3sh

**Prerequisite:** FRNC 375 or FRNC 376

Provides a flexibly designed syllabus permitting instructors and students to explore areas of special interest in French literature and culture. Content will vary according to the instructor's desired focus for a given semester. Will be conducted in French or English at the instructor's discretion.

#### FRNC 462 Studies in French Language and Linguistics

3c-01-3sh

**Prerequisite:** FRNC 353 or equivalent

Students will explore some topic relevant to French language and linguistics. Possible topics include: French around the world, history of the French language, French applied linguistics. (Total pages read in French for the course should be more than 150.)

#### FRNC 463 Studies in French Culture and Civilization

3c-01-3sh

**Prerequisite:** FRNC 353

Aspects of current French culture and civilization will be explored and assessed particularly in relation to French governmental and cultural institutions.

#### **FRNC 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times.

#### FRNC 482 Independent Study

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources. An opportunity to engage in an in-depth analysis of some topic dealing with the French language and culture through consultation with a faculty member.

#### FRNC 493 Internship

var-3-12sh

**Prerequisite:** One semester of study in France

A supervised field experience in France with approved public agencies and institutions or private firms; no longer than one semester and no less than one month. Positions will be matched as closely as possible with the intern's personal interests and professional goals. For more information, contact the director of the Internship Abroad Program.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

## German

#### **Department of German**

**College of Humanities and Social Sciences** 

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

GRMN 101 GRMN 151 GRMN 152 GRMN 201 GRMN 221 GRMN 222 GRMN 251 GRMN 252 GRMN 253 GRMN 254 GRMN 256 GRMN 281 GRMN 321 GRMN 322 GRMN 351 GRMN 352 GRMN 361 GRMN 362 GRMN 363 GRMN 364 GRMN 367 GRMN 368 GRMN 369 GRMN 370 GRMN 371 GRMN 381 GRMN 390 GRMN 410 GRMN 481 GRMN 482 GRMN 493

#### **GRMN 101 Elementary German**

var 6sh

Students complete levels I and II sequence in one semester (6sh). Emphasis will be on mastery of spoken language as well as basic language skills. Classes meet M,W,F for 60 minutes and T,R for 90 minutes.

#### GRMN 151 German I

3c-01-3sh

For beginners, the objectives include grammar, pronunciation, reading, speaking, and writing.

#### **GRMN 152 German II**

3c-01-3sh

For students who have had German I or its equivalent, the objectives are to enhance and develop the four skills of listening, speaking, reading, and writing.

#### **GRMN 201 Intermediate German**

var 6sh

Students complete levels III and IV sequence in one semester (6sh). Students develop language skills with emphasis on oral competency. Classes meet M,W,F for 60 minutes and T,R for 90 minutes.

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#### **GRMN 221 Conversation III**

2c-01-2sh

Two-hours-weekly conversation practice in small groups emphasizing the use of greetings, idiomatic expressions, and communication skills to improve vocabulary and pronunciation.

#### **GRMN 222 Conversation IV**

2c-01-2sh

Two hours of weekly conversation designed as a continuation of the practice in small groups, focusing on speaking and listening skills and on participation in discussions and dialogues. May enroll without having taken GRMN 221.

#### **GRMN 251 German III**

3c-01-3sh

Continued training in basic skills, with the possible addition of the study of specific topics; consult the department for topics of interest.

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#### **GRMN 252 German IV**

3c-01-3sh

A continuation of German III with some emphasis on literary works.

#### **GRMN 253 Intermediate Composition and Conversation**

3c-01-3sh

Can be taken instead of or in addition to 252. Designed for majors or serious students. Offered in spring only.

#### **GRMN 254 Business German**

3c-01-3sh

**Prerequisite:** GRMN 251 or equivalent

A one-semester course which can be taken instead of, or in addition to, GRMN 252 by students interested in business or as part of the Liberal Studies requirement (equivalent to German IV). Business practices and specialized business vocabulary, letter writing, and problems of translation are emphasized.

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#### **GRMN 256 Scientific German**

3c-01-3sh

Designed to substitute for GRMN 252, course will be offered in the second semester. Primarily for science majors; it may be taken as an elective by German majors.

#### **GRMN 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

#### GRMN 321-322 Advanced Conversation I and II

each 2c-0l-1sh

Designed to increase speaking ability. The variety of content permits repetitions of these relatively informal courses.

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#### GRMN 351 Advanced German Language I

3c-01-3ch

Aims to review and expand the student's grammatical skills, to apply these skills to extensive cultural and short literary readings, and to produce frequent themes on these readings.

#### **GRMN 352 Advanced German Language II**

3c-01-3sh

Continues to expand the student's grammatical skills and to apply them by the writing of longer themes based on

cultural and literary readings.

#### GRMN 361 Development of German Culture and Literature I

3c-01-3sh

Designed to provide a background in German literature, music, art, architecture, and history. Surveys the period from the migrations of the Germanic tribes to the rise of Prussia as a European power.

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#### GRMN 362 Development of German Culture and Literature II

3c-01-3sh

A continuation of GRMN 361. Covers the period from the French Revolution and its effects on Germany up to the present, with an emphasis on German literature, history, and music.

#### GRMN 363 Introduction to German Literature I

3c-01-3sh

Selected readings in German poetry to acquaint the student with formal and thematic aspects of German verse from the Middle Ages to the present.

#### GRMN 364 Introduction to German Literature II

3c-01-3sh

Selected readings in German fiction and drama to acquaint the student with representative works and techniques of interpretation.

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#### **GRMN 367 Nineteenth-Century German Literature**

3c-01-3sh

A survey of the major works of German poetry and prose with an emphasis on the literary movements of Romanticism, Realism, and Naturalism.

#### **GRMN 368 Twentieth-Century German Literature**

3c-01-3sh

A study of representative works of German poetry and prose from Expressionism through World War II.

#### **GRMN 369 Contemporary German Literature**

3c-0l-3sh

A study of the literary achievement of postwar Germany up to the present.

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#### GRMN 370 The Age of Goethe I

3c-01-3sh

A study of representative works from the Enlightenment and Storm and Stress periods.

#### GRMN 371 The Age of Goethe II

3c-01-3sh

A study of selected works of German Classicism with an emphasis on the prose and poetry of the first decades of the nineteenth century.

#### **GRMN 381 German Drama in English Translation**

3c-01-3sh

Representative works of major dramatists in English translation. Primarily intended for students of English literature and comparative literature and not considered as credit toward a German major.

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#### GRMN 390 Teaching Elementary School Content in French and German

3c-01-3sh

**Prerequisite:** Permission of the instructor

Students will explore issues relevant to the teaching and learning of French and German in the elementary school (grades K-8). Current theories of child second-language acquisition will be treated. These theoretical foundations will form the basis for the development of objectives and activities which integrate the teaching of foreign language and culture with elementary school subject content. Students will gain practical experience in planning and implementing lessons, assessing student learning, and selecting materials appropriate to the needs and interests of young learners.

#### GRMN 410 History of the German Language

3c-01-3sh

History and development of German language, with special emphasis on relationships with English. Analysis of annals in Gothic, Old High German, and Middle High German using methods of historical and contemporary linguistics.

#### **GRMN 481 Special Topic**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students. Designed to meet the special needs of a student group.

#### **GRMN 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office An opportunity to engage in an in-depth analysis of some topic dealing with the German language and culture through consultation with a faculty member.

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#### **GRMN 493 Internship in Germany**

var-3-12sh

**Prerequisites:** 12sh in 300- or 400-level courses and a minimum of one semester study in Germany A supervised field experience in Germany with approved public agencies and institutions or private firms; no longer than one semester and no less than one month. Positions will be matched as closely as possible with the intern's personal interests and degree of proficiency in the German language. Academic work at the Gesamthochschule in Duisburg must precede the internship. Open to students in other disciplines, such as Political Science, International Relations, Business, etc., with advisor approval.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# Family and Consumer Sciences Education and Child Development/Family Relations

#### Department of Human Development and Environmental Studies College of Health and Human Services

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

<u>HMEC 218 HMEC 220 HMEC 224 HMEC 281 HMEC 317 HMEC 321 HMEC 324 HMEC 418 HMEC 422 HMEC 424 HMEC 426 HMEC 427 HMEC 463 HMEC 481 HMEC 482 HMEC 493</u>

#### **HMEC 218 Child Development**

3c-01-3sh

**Prerequisite:** PSYC 101

Focuses on the normal development and behavior of children. A survey made of physical, emotional, social, and intellectual development of children from conception through early adolescence. Pertinent child development research analyzed.

#### **HMEC 220 Teaching in Child Development Centers**

2c-4l-4sh

**Prerequisite:** HMEC 218 or equivalent

Techniques in planning for and teaching preschool children. Participation as teacher-assistant provides experience in applying principles of child guidance and development needed by teachers in preschool centers or secondary school child development laboratories.

#### **HMEC 224 Marriage and Family Relations**

3c-01-3sh

Prerequisite: PSYC 101

Focuses on principles of human relations basic to marital decisions and adjustment. Influence of community and family experiences on personal development and adjustment explored.

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#### **HMEC 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

#### **HMEC 317 Infant Development**

2c-2l-3sh

**Prerequisite:** HMEC 218

A study of characteristic developmental changes of human infants from birth to approximately two and a half years.

Participation as teacher assistant in infant/toddler child care center provides experience in developmentally appropriate guidance and planning for very young children.

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#### **HMEC 321 Preschool Education**

3c-01-3sh

**Prerequisite:** HMEC 220 or concurrently

Examination of the child development philosophy as the basis for developmentally appropriate decisions and methods in preschool education programming. Emphasis is placed on play as a developmental process and as the major aspect of the preschool curriculum. May not be interchanged with <u>ELED 353</u>: Preschool Education.

#### **HMEC 324 Family Dynamics**

3c-01-3sh

**Prerequisite:** HMEC 224 or equivalent

Emphasis will be on processes and models of family development topics. Focus on approaches and dynamics of principles related to familial and marital adjustment and coping.

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#### **HMEC 418 Advanced Child Development**

3c-01-3sh

**Prerequisite:** HMEC 218

A study of trends and research in the field of child development based on a review of major theorists and current literature.

#### **HMEC 422 Early Childhood Education**

3c-01-3sh

**Prerequisite:** HMEC 220 or concurrently

Current educational theories and research reviewed in terms of implication for preschool and their effect on material, equipment, and activity selection.

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#### **HMEC 424 Family Issues**

3c-01-3sh

**Prerequisite:** HMEC 224

Concentrated study of selected areas of family life, with emphasis on current personal and social issues affecting the family.

#### **HMEC 426 Techniques of Parent Education**

3c-01-3sh

**Prerequisite:** <u>HMEC 220</u> or equivalent

Examination of nature, extent, and significance of parent education. Interrelationships of home, school, and community agencies are examined in light of various programs, methods, and techniques of parenting education.

#### **HMEC 427 Administration of Child Development Centers**

3c-01-3sh

**Prerequisites:** HMEC 220 or equivalent, juniors or seniors only

Development of special knowledge and competencies needed by successful administrators of child care programs including proposal writing, budgeting, management, staff selection and training, appropriate curriculum materials, philosophy, parent involvement, child advocacy, and program evaluation.

#### **HMEC 463 Family and the Community**

3c-01-3sh

A study of community agencies and problems that affect families and their contributions to community. Investigation of ways group dynamics, communication media, and other resources aid understanding of human behaviors. Field experience is an integral part of the course.

#### **HMEC 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

#### **HMEC 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Upper-level students with high scholastic achievement pursue their particular interests outside the realm of the organized home economics education curriculum. May be taken more than once to a maximum of 3sh. Approval is based on academic appropriateness and availability of resources.

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#### **HMEC 493 Internship**

var-6-12sh

**Prerequisites:** Permission of department, college dean, and university internship coordinator; upper-level standing Practical experience related to the student's major area of study. Objectives are developed individually in consultation with university faculty member who supervises the internship. Log and major paper required. May be repeated up to a total of 12sh; however, these semester hours are not applicable toward the 124sh required for graduation if student receives 12sh in student teaching.

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## Italian

#### Department of French College of Humanities and Social Sciences

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

#### ITAL 101 ITAL 102 ITAL 201 ITAL 202

#### ITAL 101 Basic Italian I

3c-01-3sh

Introduces students to the Italian language, with emphasis on the four basic skills: reading, writing, speaking, and listening. Students will also gain knowledge of Italian culture. Primary emphasis is on the mastery of oral communication and basic writing skills. Attendance and language lab practice are required.

#### **ITAL 102 Basic Italian II**

3c-01-3sh

**Prerequisite:** <u>ITAL 101</u> or equivalent

A continuation of Basic Italian I. Introduces students to the Italian language, with emphasis on the four basic skills: reading, writing, speaking, and listening. Students will also gain knowledge of Italian culture. Primary emphasis is on the continuing mastery of oral communication and writing skills. Attendance and language lab practice are required.

#### ITAL 201 Intermediate Italian III

3c-01-3sh

**Prerequisites:** <u>ITAL 101</u> and <u>ITAL 102</u> or equivalent

An intermediate-level course for students who have previously studied Italian. A continuation of mastery of the four skills: reading, writing, speaking, and listening. Students will also increase their knowledge of Italian history, culture, and literature.

#### ITAL 202 Intermediate Italian IV

3c-01-3sh

**Prerequisite:** <u>ITAL 201</u> or equivalent

An intermediate-level course for students who have previously studied Italian. Students will continue their progress in the mastery of the four skills: reading, writing, speaking, and listening. Emphasis will be on increasing proficiency in reading and writing. Students will also increase their knowledge of Italian history, culture, and literature.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

## Journalism

#### Department of Journalism College of Humanities and Social Sciences

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

JRNL 102 JRNL 105 JRNL 120 JRNL 220 JRNL 243 JRNL 250 JRNL 281 JRNL 321 JRNL 326 JRNL 327 JRNL 328 JRNL 337 JRNL 344 JRNL 345 JRNL 347 JRNL 348 JRNL 375 JRNL 393 JRNL 423 JRNL 427 JRNL 430 JRNL 446 JRNL 450 JRNL 455 JRNL 481 JRNL 482 JRNL 490 JRNL 491 JRNL 492 JRNL 493 JRNL 494

#### JRNL 102 Basic Journalistic Skills

3c-01-3sh

Prerequisite: ENGL 101

Required for journalism majors and minors. Emphasis will be on grammar, punctuation, spelling, AP Stylebook, copyediting, headlines, and accuracy.

#### JRNL 105 Journalism and the Mass Media

3c-01-3sh

Prerequisite: ENGL 101

A critical examination of roles-goals of newspapers, magazines, radio, and television as they affect American society socially, politically, and economically.

#### JRNL 120 Journalistic Writing

3c-01-3sh

**Prerequisite:** ENGL 101, nonmajors/minors

Emphasis will be on intelligent use of writing ability in a journalistic style and understanding of the why of journalism and mass media. Practices and improves writing skills for all news media, print and broadcast.

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#### JRNL 220 Writing for the Print Media

3c-01-3sh

**Prerequisites:** JRNL 102 (C or better), majors only

A course in journalistic style intended for students who plan to become professional writers. Teaches the basic journalistic formats and strategies used in print media such as the summary lead, the delayed lead, and the conventional news-story format. Throughout emphasizes economy, clarity, and the development of voice for a given medium.

#### JRNL 243 History of the American Press

3c-01-3sh

**Prerequisites:** JRNL 120 or 220

Traces the development of the American press from its Colonial roots. Emphasis will be on the role of the press in political and social development.

#### JRNL 250 Women and the Press

3c-01-3sh

**Prerequisites:** ENGL 101, sophomore standing

Explores the role of women in American journalism. Includes study of lives/careers of women journalists and their specific contributions to the profession. Emphasis will be on evolution of equal opportunity for women and other minorities in the American Press. Attention to the changing definition of news as influenced by the inclusion of women and minorities in editorial roles.

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#### **JRNL 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

#### JRNL 321 Feature Writing

3c-01-3sh

Prerequisites: JRNL 102, 220

Designed for the student who might work in journalism or who might wish to write on a part-time or free-lance basis.

#### JRNL 326 Public Relations I

3c-01-3sh

**Prerequisites:** <u>JRNL 102</u>, <u>120</u> or <u>220</u>

Introduces students to the principles, practices, programs, and possibilities in the various areas of public relations.

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#### JRNL 327 Layout Design and Production

2c-31-3sh

Prerequisite: JRNL 105

Provides basic techniques and theories of layout design and production, including typography, copyfitting, photo/art cropping and scaling, and steps in design process. Includes traditional paste-up and desktop publishing in the design of ads, newspapers, newsletters, brochures, and magazines.

#### **JRNL 328 News Reporting**

3c-01-3sh

**Prerequisites:** JRNL 102, 105, 220, majors only

Includes instruction in writing the news story, preparing copy, interviewing, covering special events, and similar reporting activities.

#### **JRNL 337 Editing**

3c-01-3sh

Prerequisites: JRNL 102, 220

Stresses basic practices such as copyediting and headline writing while also focusing on guidelines for improving accuracy, clarity, transition, spelling, and punctuation of copy. Students use wire service stylebook extensively.

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#### **JRNL 344 Issues and Problems**

3c-01-3sh

Prerequisites: <u>JRNL 102</u>, <u>JRNL 120</u>, or <u>JRNL 220</u>

Students examine critical case histories of ethical and professional situations and circumstances in the mass communication industry in a lecture and discussion format.

#### JRNL 345 Sports Journalism

3c-01-3sh

**Prerequisite:** JRNL 220

Emphasizes skills for covering, writing, and editing of sports and introduces students to specific practices in newspaper, radio-TV, and sports information work.

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#### JRNL 347 Journalism Law

3c-01-3sh

**Prerequisites:** JRNL 328, junior/senior standing

Open to nonmajors by permission of the instructor. A survey of the major Supreme Court and state court rulings governing the mass media, especially the news media. Areas include libel, antitrust, free press/fair trial, privacy. Approach is nontechnical.

#### JRNL 348 The Editorial Page

3c-01-3sh

**Prerequisite:** Junior/senior standing

Emphasis will be on the writing of vigorous but thoughtful and fair editorials. Study of contemporary practice and policy on letters to the editor, columnists, cartoons, the op-ed page.

#### **JRNL 375 World News Coverage**

3c-01-3sh

**Prerequisite:** Sophomore standing

Deals with international news events and analysis of international new coverage in sources from around the world. Emphasis placed on analyzing comparative coverage of events in different sources. Students study not only current international news but also how it is reported. The goal of the course is fostering a critical attitude toward news.

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#### JRNL 393 Document Design I

3c-01-3sh

**Prerequisite:** Junior/senior standing

Teaches students advanced principles of document design and gives them the opportunity to apply techniques of rhetorical/stylistic analysis, general problem solving, and holistic information display to a wide variety of writing formats used in business, industry, and government news.

#### JRNL 423 Management in Mass Communications

3c-01-3sh

**Prerequisites:** JRNL 493 or field experience

Attention given to the process of advancement to management positions in the advertising, journalism, and public relations industries.

#### **JRNL 427 Publications**

3c-01-3sh

**Prerequisites:** JRNL 327 or instructor permission

Provides advanced techniques and theories of publications design, including the legibility principles of typography, the psychological impact of color and paper, and designing on-line publications, such as newspapers, newsletters, and magazines. Students will also learn principles and concepts of publications management, including coping with deadline pressures and the creative disposition, and the marketing of publications. The class will produce a total publication.

#### JRNL 430 Public Opinion and the News Media

3c-01-3sh

**Prerequisite:** Junior standing

Deals with understanding and measuring public opinion. Emphasis is placed on critically analyzing the historical origins and the dynamics of public opinion in the policymaking process as well as the role of the news media in public opinion. Students then measure people's thinking on any given issue or issues.

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#### JRNL 446 Research Methods in Journalism

3c-01-3sh

Prerequisite: JRNL 328 or instructor's permission

Explores theoretical and practical issues in information gathering, with emphasis on data analysis and computer-assisted reporting for public affairs journalism. Students will apply scientific methods in news reporting and analyze the effects of precision journalism on society.

#### JRNL 450 Advertising Writing

3c-01-3sh

Prerequisite: JRNL 220, instructor permission

A basic course in the preparation of advertising copy and continuity for all media. It is a combination of lecture and laboratory course. Enrollment is limited to fifteen upperclass majors per semester.

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#### **JRNL 455 High School Journalism**

3c-01-3sh

**Prerequisite:** Junior standing or permission

Aimed at equipping students with basic skills in teaching and student media advising at the high school level. Offers a package of skills ranging from basic elements of news, news writing, editing, newspaper layout and design, student publications advising as well as legal and ethical issues in high school journalism. For nonmajors.

#### **JRNL 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

These courses vary from semester to semester, covering a number of journalism specialties. From time to time they are converted to permanent course numbers. Special topics numbered 481 are offered primarily for upper-level undergraduate students.

#### JRNL 482 Independent Study

var-1-6sh

**Prerequisite:** Prior approval through adviser, faculty member, department chairperson, dean, and provost's office Opportunities for independent study that goes beyond the usual classroom activities. Approval is based on academic appropriateness and availability of resources; enrollment is limited to fifteen upperclass majors per semester.

#### JRNL 490 Public Relations II

3c-01-3sh

Prerequisite: JRNL 220, JRNL 326

A public relations writing class that includes assignments such as releases, features, newsletters, reports, biographies, rewrites, hometown stories, copyediting, interviewing, research, and special projects.

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#### **JRNL 491 Presentation Making**

3c-01-3sh

Prerequisite: JRNL 220, JRNL 326

Gives the student practice in writing and making oral presentations based on public relations cases and problems. Familiarizes the student with problem-solving and small-group communication skills necessary for those working in the area of public affairs.

#### JRNL 492 Problem-solving in PR

3c-01-3sh

Prerequisite: JRNL 328

Introduces students to techniques for analyzing and tracking information flow in organizations. Introduces students to creative problem-solving techniques which are standard practice in corporate research groups.

#### **JRNL 493 Internship**

var-6-12sh

Prerequisites: JRNL 102, JRNL 105, JRNL 220, JRNL 328, department approval

On-the-job training opportunities in journalism and related areas. Maximum of 6sh may be applied to 30sh minimum of major.

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#### JRNL 494 Document Design II

3c-01-3sh

Prerequisite: JRNL 328, JRNL 393

Gives students advanced work in preparation of substantial corporate and government documents such as annual reports, lengthy project reports, and research reports, etc. Emphasizes skills in research of public and government documents, data analysis and problem solving, holistic information display, writing, and editing.

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## Latin

# **Department of Spanish and Classical Languages College of Humanities and Social Sciences**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

<u>LATN 101 LATN 102 LATN 201 LATN 281 LATN 351 LATN 352 LATN 361 LATN 362 LATN 371 LATN 481 LATN 482</u>

#### **LATN 101 Elementary Latin I**

4c-01-4sh

For beginning students. Emphasis is on oral and reading skills. Students will learn most of the Latin noun system; they will also learn how to answer simple and moderately difficult Latin questions. There are also short readings in easy Latin. Students learn significant differences between Latin and English. Attendance is required.

#### **LATN 102 Elementary Latin II**

4c-01-4sh

A continuation of LATN 101. In grammar, students finish the noun system and learn several Latin tenses, including the perfect tense. Latin questions, oral and written, remain an important part of the course, as do the readings. There are class discussions and a paper on readings in English from Sophocles, Tacitus, and Cicero. Attendance is required.

#### **LATN 201 Intermediate Latin**

4c-01-4sh

More of the verb system is learned; while grammatical studies continue, more emphasis is placed on learning how to read short, intermediate-level selections from Latin literature. Oral and written questions continue. Ovid's Metamorphoses is the topic for class discussion and a paper. Liberal Studies credit is given.

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#### **LATN 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

#### LATN 351 Advanced Latin I

3c-01-3sh

Reviews grammar in depth; analyzes the structure of the language. Written themes are not required. Selections from Latin prose are read for knowledge of their content and for developing knowledge of the structure of the language. Offered only by individualized instruction.

#### **LATN 352 Advanced Latin II**

3c-01-3sh

A continuation of LATN 351. Selections are from poetry this semester.

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#### LATN 361 Development of Roman Culture and Literature

3c-01-3sh

Latin poetry and history will be read to show the influence of political and social ideas on literature; emphasis will be on the contrast between the Republican and Imperial periods. Some reading will be in Latin; most will be in English. Offered only by individualized instruction.

#### **LATN 362 Latin Conversation and Composition**

3c-01-3sh

Aims at the ability to speak Latin on a conversational level and to write grammatically correct Latin prose. Offered only by individualized instruction.

#### **LATN 371 Survey of Latin Literature I**

3c-01-3sh

Comprehensive view of Latin literature from Ennius through the Augustan Age. Offered only by individualized instruction.

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#### **LATN 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

#### LATN 482 Independent Study

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office An opportunity to engage in an in-depth analysis of some topic dealing with the Latin language and culture through consultation with a faculty member. Approval is based on academic appropriateness and availability of resources.

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# **Spanish**

# **Department of Spanish and Classical Languages College of Humanities and Social Sciences**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

<u>SPAN 101 SPAN 102 SPAN 121 SPAN 122 SPAN 131 SPAN 132 SPAN 201 SPAN 221 SPAN 222 SPAN 223 SPAN 230 SPAN 244 SPAN 260 SPAN 281 SPAN 290 SPAN 321 SPAN 340 SPAN 342 SPAN 344 SPAN 353 SPAN 354 SPAN 362 SPAN 364 SPAN 382 SPAN 382 SPAN 383 SPAN 384 SPAN 385 SPAN 389 SPAN 390 SPAN 400 SPAN 402 SPAN 403 SPAN 404 SPAN 410 SPAN 411 SPAN 412 SPAN 413 SPAN 420 SPAN 421 SPAN 430 SPAN 431 SPAN 451 SPAN 481 SPAN 482 SPAN 493</u>

#### SPAN 101 Elementary Spanish I

4c-01-4sh

For beginning students. Primary emphasis is on aural/oral skills. Students will learn to converse and ask questions in simple present time and become acquainted with location of Hispanic populations and elements of their daily lives. Attendance is required.

#### **SPAN 102 Elementary Spanish II**

4c-01-4sh

A continuation of SPAN 101. Students will learn to express past and future time. They will continue to learn about Hispanic countries and their cultures. Attendance is required.

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#### SPAN 121 Spanish for Health Care Professionals I

3c-01-3sh

For beginning students in nursing and other health-related programs. Primary emphasis is on aural/oral skills. Students will learn to converse and ask questions related to health care settings in simple present time and near future. They will also become acquainted with Hispanic populations and elements of their daily lives. Class and language lab attendance are required. A student may receive credit for only one course from SPAN 101, 111, 121, or 131.

#### SPAN 122 Spanish for Health Care Professionals II

3c-01-3sh

**Prerequisite:** SPAN 121 or equivalent

A continuation of SPAN 121 for students in nursing and other health-related programs. Primary emphasis is on aural/oral skills. Students will learn to express past and future time in health care settings. They will read articles about medical issues and short stories which concern health care themes in Hispanic cultures. Class and language lab attendance are required. A student may receive credit for only one course from SPAN 102, 122, 132, or 211.

#### SPAN 131 Spanish for the Hospitality Industry I

3c-01-3sh

Similar to SPAN 101 but with a special emphasis on the vocabulary and structures used in the hospitality industry: hotel and restaurant management, tourism, and marketing. Class and language lab attendance is required. A student

may receive credit for only one course from SPAN 101, 111, 121, or 131.

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# SPAN 132 Spanish for the Hospitality Industry II

3c-01-3sh

**Prerequisite:** SPAN 131 or equivalent

Similar to SPAN 102 but with a special emphasis on the vocabulary and structures used in the hospitality industry: hotel and restaurant management, tourism, and marketing. Class and language lab attendance is required. A student may receive credit for only one course from SPAN 102, 122, 132, or 211.

#### **SPAN 201 Intermediate Spanish**

4c-01-4sh

**Prerequisite:** SPAN 102 or equivalent

A continuation of previous work on listening, speaking, reading, and writing skills. Students will learn to function in everyday situations, expressing opinions and doubts, and narrating and describing in present, past, and future time. Exposure to cultural concepts through literary readings. Liberal Studies credit is given.

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#### **SPAN 221 Intermediate Spanish Conversation**

3c-01-3sh

**Prerequisite:** SPAN 201 or equivalent

Intensive work on oral communication skills with emphasis on vocabulary building, pronunciation, and discourse strategies. Required for all majors and minors.

#### **SPAN 222 Intermediate Spanish Conversation-Business**

3c-01-3sh

**Prerequisite:** SPAN 201 or equivalent

Same as SPAN 221 but with a special emphasis on the vocabulary and structures used in the business world. Substitutes for SPAN 221.

#### SPAN 223 Intermediate Spanish Conversation-Criminology

3c-01-3sh

**Prerequisite:** SPAN 201 or equivalent

Same as SPAN 221 but with a special emphasis on the vocabulary and structures used in law enforcement and criminal justice. Substitutes for SPAN 221.

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#### **SPAN 230 Intermediate Spanish Composition**

3c-01-3sh

**Prerequisite:** SPAN 221 or concurrent registration

Intensive practice in written expression in Spanish. Both communicative and structural skills are stressed. Taught in Spanish. Required for all majors and minors. Approved to meet the Liberal Studies requirement for a writing-intensive course for majors.

#### **SPAN 244 Modern Mexico**

3c-01-3sh

**Prerequisite:** SPAN 201 or equivalent and participation in the Mexico Summer Study Abroad Program Taught in Mexico as part of the study abroad program, introduces students to the contemporary culture of the largest Spanish-speaking country in the world. A historical perspective is provided within which to understand current phenomena. Textbook readings are supplemented with readings from literary works and current periodicals. Students will gain firsthand experience both through field trips and by living with a Mexican family. Taught in Spanish.

# **SPAN 260 Introduction to Hispanic Literature**

3c-01-3sh

**Prerequisite:** SPAN 230 or equivalent

A prerequisite for any 300- or 400-level course in Hispanic literatures. Designed to provide students with the tools necessary for developing literary competence, the course combines a study of literary genres and analysis with an introduction to the literatures of Spain and Spanish America. Taught in Spanish. Required for all majors and minors.

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#### **SPAN 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

#### SPAN 290 Spanish for Elementary Teaching

3c-01-3sh

**Prerequisite:** SPAN 201 or equivalent oral proficiency rating. For students enrolled in the FLISET Program Designed for Elementary Education/Early Childhood majors who are completing the FLISET Program. The purpose is to increase the students' proficiency in Spanish and to prepare them for an internship in an elementary school abroad. Emphasis is placed on vocabulary acquisition and on strengthening of listening and speaking abilities in Spanish. Through in-class interaction and practice in the language laboratory, students improve their linguistic skills, learn the language necessary for dealing with elementary-age children, and acquire basic vocabulary for teaching the content areas of the elementary school curriculum.

# **SPAN 321 Advanced Spanish Conversation**

3c-01-3sh

**Prerequisite:** SPAN 230 or equivalent

Extensive practice in oral communication skills. Emphasis is placed on developing fluency in speaking over a wide range of topic areas. Required for all majors and minors.

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# SPAN 340 Hispanic Civilization Through the 19th Century

3c-01-3sh

**Prerequisite:** SPAN 230 or equivalent

An introduction to the significant aspects of the culture of both Spain and Spanish America. Elements for explanation and discussion are drawn from artistic, literary, religious, geographic, social, and political manifestations of Hispanic culture as these have revealed themselves through the nineteenth century. Taught in Spanish. Required for all majors and minors.

#### SPAN 342 Twentieth-Century Spanish Civilization and Culture

3c-01-3sh

**Prerequisite:** SPAN 230 or equivalent

An analysis of the major cultural trends in twentieth-century Spain as they relate to its current problems, aspirations, and values. Elements for explanation and discussion are drawn from artistic, literary, religious, geographic, social, and political manifestations. Taught in Spanish; offered alternate years. (May not duplicate credit for SPAN 382 taken in Valladolid)

#### SPAN 344 Twentieth-Century Spanish-American Civilization and Culture

3c-01-3sh

**Prerequisite:** SPAN 230 or equivalent

An analysis of the major cultural trends in twentieth-century Spanish America as they relate to its position in the

world. Elements for explanation and discussion are drawn from artistic, literary, religious, geographic, social, and political manifestations, including indigenous cultural influences. Taught in Spanish; offered alternate years.

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#### **SPAN 353 Spanish Phonetics and Phonemics**

3c-01-3sh

An introduction to the phonological study of the sounds and training in pronunciation. The student will learn the theoretical basis for understanding the Spanish sound system and will perfect pronunciation through classroom practice and tapings. Taught in Spanish. Required for Spanish Education majors; highly suggested for Spanish majors.

#### **SPAN 354 Commercial Spanish**

3c-01-3sh

Prerequisite: <u>SPAN 230</u> or equivalent

Designed especially for majors in Spanish for International Trade, this course has three focuses: it teaches students how to do business communications in Spanish; it teaches the vocabulary necessary for dealing with all aspects of trade and commerce; and it introduces students to the special concerns and practices of business in the Spanish-speaking world. Taught in Spanish.

#### SPAN 362 Survey of Peninsular Literature

3c-01-3sh

**Prerequisite:** SPAN 260 or permission

Designed to introduce students to a careful and critical reading of literary texts from Spain read either in their entirety or in select passages. Taught in Spanish; offered alternate years.

#### SPAN 364 Survey of Spanish-American Literature

3c-01-3sh

**Prerequisite:** SPAN 260 or permission

Designed to introduce students to a careful and critical reading of Spanish-American literary texts read either in their entirety or in select passages. Taught in Spanish; offered alternate years.

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#### SPAN 382 -389 Pennsylvania-Valladolid Program

18sh

**Prerequisite:** SPAN 230 and SPAN 260 or permission

Contact chairperson, Department of Spanish and Classical Languages. Courses taken in Valladolid include the SPAN 382-389 and SPAN 482 (3sh). Descriptions below.

#### **SPAN 382 Contemporary Spain**

3sh

**Prerequisite:** SPAN 230 and SPAN 260 or permission

Gives the student a general view of Spain today in the areas of society, economy, and political institutions. (See <u>SPAN</u> 342)

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#### SPAN 383 Geography and History of Spain

3sh

**Prerequisite:** SPAN 230 and SPAN 260 or permission

Students will be introduced to a panorama of Spanish physical, social, and economic geography, including the recent autonomic division of the country and the communication among the autonomies. Students will also review the history of Spain from the fifteenth century to the present with special emphasis on today's Spanish institutions.

# SPAN 384 History of Spanish Art

3sh

**Prerequisite:** SPAN 230 and SPAN 260 or permission

Students will be exposed to the richness of art in the Iberian Peninsula and in particular in the area of Madrid and Castilla-Leon. They will study the evolution of Spanish art in history, giving more emphasis to contemporary tendencies.

### SPAN 385 Survey of Spanish Literature

3sh

Prerequisite: <u>SPAN 230</u> and <u>SPAN 260</u> or permission

Students will be introduced to a general study of Spanish literature from its origin to the present time and will learn to appreciate and analyze the different literary genres. Emphasis will be placed on twentieth-century literature.

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# SPAN 389 Theory and Practice of Spanish Language

3sh

**Prerequisite:** SPAN 230 and SPAN 260 or permission

Students will be introduced to Spanish syntax, morphology, and the Spanish language lexicon. They will be introduced to familiar and formal conversation and to idiomatic expressions used in everyday situations.

# SPAN 390 Teaching of Elementary Content Through the Spanish Language

3c-01-3sh

Prerequisites: Passage of a language proficiency examination and permission of the instructor

The student will study current theories of language acquisition processes in children and will develop foreign language instructional objectives and activities which integrate language and cultural learning with the content areas of the elementary school curriculum. Through hands-on practice, the student will develop techniques for teaching functional language, planning lessons, testing language skills, setting curricular objectives, and selecting/designing materials appropriate to the needs and interests of elementary school foreign language learners.

#### SPAN 400 History of the Spanish Language

3c-01-3sh

**Prerequisite:** SPAN 230 or equivalent

Traces phonological, morphological, lexical, and syntactical evolution of Castilian dialect from its origins in vulgar Latin through its development, perfection, and ultimate recognition as the official language of Spain and Spanish America. Places Castilian linguistically with relation to other Romance languages and considers features peculiar to Spanish of Latin America. Taught in Spanish.

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#### **SPAN 402 Translation and Interpretation**

3c-01-3sh

Prerequisite: SPAN 230 and SPAN 321

Fundamental translation skills for use in business and industry as well as in academic and popular fields.

#### **SPAN 403 Applied Linguistics**

3c-01-3sh

**Prerequisite: SPAN 230** 

An introduction to Spanish linguistics for students who have had no previous experience in linguistics. Students will study the application of areas such as phonology, morphology, syntax, and semantics and will explore issues in psycholinguistics and sociolinguistics. Taught in Spanish.

#### **SPAN 404 Advanced Spanish Grammar**

3c-01-3sh

**Prerequisites:** <u>SPAN 221</u> or equivalent and <u>SPAN 230</u> and senior standing or departmental permission An in-depth study of Spanish syntax and morphology. Taught in Spanish. Required for all majors.

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#### **SPAN 410 Medieval Literature**

3c-01-3sh

**Prerequisite:** SPAN 260 or permission

Reading and discussion of various medieval genres: brief prose narrative, epic, lyric, and didactic poetry, prose, and medieval drama. Taught in Spanish; offered in four-year rotation.

#### **SPAN 411 Golden Age Literature**

3c-01-3sh

Prerequisite: **SPAN 260** or permission

An analysis of themes, motifs, and stylistic devices of Spanish poetry, novel, and theater of the Renaissance and Baroque. Taught in Spanish; offered in four-year rotation.

### SPAN 412 The Spanish Novel of the 19th and 20th Centuries

3c-01-3sh

**Prerequisite:** SPAN 260 or permission

An analysis of selected novels from three major periods: the nineteenth century, the Generation of 1898, and the post Civil War. Taught in Spanish; offered in four-year rotation.

# SPAN 413 Spanish Poetry of the Nineteenth and Twentieth Centuries

3c-01-3sh

Prerequisite: **SPAN 260** or permission

The study and analysis of lyric poetry in Spain from nineteenth-century poetry through modernism and its evolution to the present. Taught in Spanish; offered in four-year rotation.

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### **SPAN 420 Modern Hispanic Theater**

3c-01-3sh

**Prerequisite:** SPAN 260 or permission

The study and analysis of modern dramatic works from Spain and Spanish America. Particular emphasis will be given to the representational aspect of the works. Taught in Spanish; offered in four-year rotation.

#### **SPAN 421 Modern Hispanic Short Story**

3c-01-3sh

**Prerequisite:** SPAN 260 or permission

The critical analysis of short stories by Spanish and Spanish-American authors. Taught in Spanish; offered in four-year rotation.

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#### SPAN 430 Twentieth-Century Spanish-American Prose

3c-01-3sh

**Prerequisite:** SPAN 260 or permission

Traces literary expressions from the turn of the century to the present in the major prose expressions of the essay, the short story, and the novel. Taught in Spanish; offered in four-year rotation.

#### **SPAN 431 Spanish-American Poetry**

3c-01-3sh

**Prerequisite:** SPAN 260 or permission

A study of Spanish American poetry from its early manifestations through modernism, post-modernism, and avant-

garde. Taught in Spanish; offered in four-year rotation.

#### **SPAN 451 Conversation Forum**

2c-01-2sh

Prerequisite: SPAN 321 or equivalent

Extensive work on the development of speaking skills at the "Advanced Low" level of oral proficiency, as defined in the Speaking Guidelines developed by the American Council on the Teaching of Foreign Languages. Focus on paragraph-length discourse and narration and description in present, past, and future time frames within a variety of topics and contexts.

# **SPAN 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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#### **SPAN 482 Independent Study**

var-1-6sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office An opportunity to engage in an in-depth analysis of some topic dealing with the Spanish language and culture through consultation with a faculty member. Approval is based on academic appropriateness and availability of resources.

# SPAN 493 Internship

var-3-12sh

**Prerequisite:** One semester of study in a Spanish-speaking country

A supervised field experience in any Spanish-speaking area of the world with approved public agencies and institutions or private firms, no longer than one semester and no less than one month. Positions will be matched as closely as possible with the intern's personal interests and professional goals. For more information contact the Spanish and Classical Languages Department. Maximum of 6sh can be applied toward a major.

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# **Pan-African Studies**

#### **College of Humanities and Social Sciences**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

#### PNAF 131 PNAF 281 PNAF 481 PNAF 482

#### PNAF 131 Introduction to Pan-African Studies

3c-01-3sh

A multidisciplinary introduction to Africa and the African diaspora. Explores the effects of Africa's history, in particular colonialism and independence, on present-day Africa; examines the relationship between Africa and the African diaspora with special attention to African arts, social systems, and political and economic development; looks at Africa's contribution to contemporary culture in the Americas.

#### **PNAF 281 Special Topics**

3c-01-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are primarily for lower-level undergraduate students.

#### **PNAF 481 Special Topics**

3c-01-3sh

**Prerequisite:** Permission of the instructor and program coordinator

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

#### PNAF 482 Independent Study

var 1-to-3sh

**Prerequisite:** Prior approval through advisor, faculty member, program coordinator, dean, and Provost's Office Students with interest in independent study of a Pan-African Studies-related topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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# **International Studies**

# **Department of Political Science College of Humanities and Social Sciences**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

#### <u>ITST 281 ITST 482</u>

# **ITST 281 Special Topics in Non-Western Studies**

var-1-3sh

Focuses on politics, society, and culture of a particular non-Western country or area. Content is variable, depending on the semester. Will be taught by visiting exchange professors from non-Western countries. This Special Topics course may be offered on a continuing basis.

### **ITST 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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# **Critical Languages**

#### **College of Humanities and Social Sciences**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

#### CRLG 101-120 CRLG 151-170 CRLG 201-220 CRLG 251-270

Critical Languages are offered in four levels. See program description in the opening section of the College of Humanities and Social Sciences. Specific languages are offered as available.

#### CRLG 101 - 120 Critical Languages I

3c-01-3sh

Basic vocabulary and pronunciation in the target language. Oral/aural skills are stressed.

CRLG 110 Modern Greek I CRLG 111 Portuguese I CRLG 112 Russian I CRLG 113 Swedish I CRLG 114 Hebrew I	CRLG 106 Hungarian I CRLG 108 Japanese I CRLG 109 Korean I CRLG 110 Modern Greek	CRLG 104 Finnish I CRLG 105 Hindi I	CRLG 101 Arabic I CRLG 102 Chinese I CRLG 103 Dutch I	CRLG CRLG CRLG CRLG CRLG CRLG CRLG CRLG	102 103 104 105 106 108 109 110 111 112 113	Chinese I Dutch I Finnish I Hindi I Hungarian I Japanese I Korean I Modern Greek Portuguese I Russian I Swedish I
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# CRLG 151 - 170 Critical Languages II

3c-01-3sh

**Prerequisite:** Level I or acceptable equivalent

A continuation of the first-semester course. Depending on the language being studied, reading and writing may be introduced at this level.

```
CRLG 151
CRLG 152
               Arabic II
               Chinese II
CRLG 153
               Dutch II
CRLG 154
CRLG 155
               Finnish II
               Hindi II
CRLG 156
               Hungarian II
CRLG 158
               Japanese II
CRLG 159
CRLG 160
               Korean II
               Modern Greek II
CRLG 161
               Portuguese II
CRLG 162
CRLG 163
               Russian II
               Swedish II
CRLG 164
               Hebrew II
CRLG 165
               Swahili II
```

# CRLG 201 - 220 Critical Languages III

3c-01-3sh

#### **Prerequisite:** Level II or acceptable equivalent

At this first intermediate level, students will begin to develop a degree of oral proficiency that will vary with the language studied. Reading and writing will be studied in all languages by this level.

201	Arabic III
202	Chinese III
203	Dutch III
204	Finnish III
205	Hindi III
206	Hungarian III
208	Japanese III
209	Korean III
210	Modern Greek III
211	Portuguese III
212	Russian III
213	Swedish III
214	Hebrew III
215	Swahili III
	205 206 208 209 210 211 212 213

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# CRLG 251 - 270 Critical Languages IV

3c-01-3sh

#### **Prerequisite:** Level III or acceptable equivalent

By the end of this course the student should be able to communicate in simple terms with an educated native speaker on a topic with which the student is familiar. Ability in reading and writing will vary with language.

```
CRLG 251
CRLG 252
               Arabic IV
               Chinese IV
CRLG 253
               Dutch IV
CRLG 254
CRLG 255
               Finnish IV
               Hindi IV
               Hungarian IV
CRLG 256
CRLG 258
               Japanese IV
CRLG 259
               Korean IV
CRLG 260
              Modern Greek IV
CRLG 261
               Portuguese IV
CRLG 262
               Russian IV
CRLG 263
               Swedish IV
CRLG 264
               Hebrew IV
               Swahili IV
CRLG 265
```

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# **Liberal Studies**

# **Liberal Studies Program Academic Affairs Division**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

### **LBST 499**

### **LBST 499 Senior Synthesis**

3c-01-3sh

Prerequisite: 73 or more semester hours earned

Helps students understand and handle complex intellectual and social issues from multiple perspectives. A selection of topics, available each semester and summer session, is announced and described in the undergraduate course schedule. Students should schedule the course during the senior year or at least no earlier than the last half of the junior year. In order to broaden their experiences, students are encouraged to enroll in synthesis sections taught by instructors outside of the students' major fields.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# Accounting

### **Department of Accounting**

**Eberly College of Business and Information Technology** 

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

ACCT 201 ACCT 202 ACCT 281 ACCT 299 ACCT 300 ACCT 301 ACCT 302 ACCT 311 ACCT 321 ACCT 399 ACCT 401 ACCT 412 ACCT 422 ACCT 431 ACCT 435 ACCT 441 ACCT 451 ACCT 461 ACCT 471 ACCT 481 ACCT 482 ACCT 488 ACCT 493

*Note:* All courses at the 300 and 400 level are open only to students with junior or senior standing. All students, regardless of major or program affiliation, must meet course prerequisite requirements in order to enroll for a given course.

### **ACCT 201 Accounting Principles I**

3c-01-3sh

Introduces the student to the accounting cycle in service and merchandising concerns using the single proprietorship form of business organization; covers use of special journals and subsidiary ledgers in the accounting system as well as accounting and internal control procedures for cash, receivables, inventory, and plant and equipment.

#### **ACCT 202 Accounting Principles II**

3c-01-3sh

**Prerequisites:** C or better in <u>ACCT 201</u>, sophomore status

Covers accounting principles and procedures for payroll, partnerships, corporations, long-term liabilities and investments, and manufacturing firms with a general accounting system. Introduces the student to cost accounting systems, financial statements analysis, budgeting, and use of accounting information in making managerial decisions.

#### **ACCT 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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#### **ACCT 299 Cooperative Education I**

0c-01-2sh

**Prerequisites:** Completion of 55 credits with a minimum GPA of 2.0 including at least a "C" in <u>ACCT 201</u>, <u>ACCT 202</u>, and <u>IFMG 241</u>, and approval of the cooperative advisor

The initial experience in a program designed to combine classroom theory with practical application through jobrelated experiences. Students are actively employed in the accounting area in business, industry, government, and a variety of organizations and agencies with a work focus which relates to their academic training and career objectives in accounting. The student is expected to complete subsequently ACCT 399 or an internship.

# **ACCT 300 Managerial Accounting**

3c-01-3sh

**Prerequisite:** ACCT 202 (not open to Accounting majors)

Emphasizes the use of accounting information in performing the managerial functions of planning, control, decision making, and performance evaluation. Note: Accounting majors will not be granted degree credit for ACCT 300.

### **ACCT 301 Intermediate Accounting I**

3c-01-3sh

**Prerequisite:** C or better in <u>ACCT 202</u>

An overview of the foundation of accounting theory dealing with application of generally accepted accounting principles as promulgated in professional pronouncements to the reporting process and to accounting for various asset items in the financial statements.

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#### **ACCT 302 Intermediate Accounting II**

3c-01-3sh

**Prerequisite:** C or better in ACCT 301

Application of generally accepted accounting principles to various areas such as accounting for corporations, long-term investments in securities, bonds, pension costs, leases, etc.

#### **ACCT 311 Cost Accounting**

3c-01-3sh

**Prerequisite:** C or better in <u>ACCT 202</u>

Cost accounting methods and procedures including cost accumulation under job order cost system and process cost system, cost allocation, budgeting, and accounting for spoilage, joint, and by-products. The planning and control aspect of cost accounting is emphasized.

#### **ACCT 321 Federal Taxes**

3c-01-3sh

**Prerequisite:** C or better in ACCT 202

Acquaints the student with federal income tax laws as they apply to individual taxpayers and partnerships. (Offered as ACCT 421 prior to 1999-2000)

# **ACCT 399 Cooperative Education II**

0c-01-3sh

**Prerequisites:** ACCT 299; completion of 85 credits with an overall GPA of 2.0; a GPA of 2.3 in ACCT 301, 302, and 311 with at least a "C" in each course; and approval of the cooperative advisor

The subsequent course in cooperative education is designed to combine classroom theory with practical application through job-related experiences. Cooperative Education students are actively employed in the accounting area in business, industry, government, and a variety of organizations and agencies with a work focus which relates to their academic training and career objectives in accounting.

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#### **ACCT 401 Advanced Accounting**

3c-01-3sh

**Prerequisite:** ACCT 302

A study of accounting issues of specialized nature including partnerships, organization and liquidation, agency and branch accounting, accounting for business combinations, preparation of consolidated financial statements, accounting for government and not-for-profit entities, accounting for estates and trusts, and receivership accounting.

#### **ACCT 412 Advanced Cost Accounting**

3c-01-3sh

**Prerequisite:** C or better in ACCT 311

A study of budgets, standard costs, direct and absorption costing, analysis of cost variances, and extensive analysis of various cost control and profit planning programs.

#### Back to Top

## ACCT 422 Federal Taxation of Corporations, Partnerships, Estates, and Trusts

3c-0l-3sh

Prerequisites: ACCT 302 and ACCT 321

An advanced course in federal income taxation as it applies to taxpayers other than individuals. Covers the tax treatment of those property transfers subject to federal and state gift and death taxes. The tax planning aspect of the various course topics as well as tax research methodology are also discussed.

# **ACCT 431 Auditing**

3c-01-3sh

Prerequisite: ACCT 302

A study of auditing theory and practical application of auditing standards and procedures to the review, testing, and evaluation of accounting controls and to the verification of transactions and balances to express an opinion in an audit report on the fairness of financial statements' presentation.

#### **ACCT 435 Internal Auditing**

3c-01-3sh

**Prerequisite:** ACCT 431

Covers four issues: foundations for internal auditing, administering internal auditing activities, operational areas, and special relationships and evaluation for internal auditing.

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#### **ACCT 441 Accounting for Government and Nonprofit Organizations**

3c-01-3sh

Prerequisite: ACCT 302

Presents the views of authoritative professional organizations as to desirable standards of accounting and reporting for governmental and nonprofit entities. Topics include budgeting and budgetary accounts, accounting for various funds, the general fixed assets group of accounts, the financial reporting process, and application of the principles of fund accounting in specific areas.

#### **ACCT 451 Seminar in Accounting Standards**

3c-01-3sh

Prerequisite: ACCT 302

A study of professional standards having authoritative support in the field of accounting. APB opinions, FASB interpretations, and SEC Accounting Series Releases are discussed.

#### **ACCT 461 Accounting Systems**

3c-01-3sh

Prerequisites: ACCT 302, ACCT 311, IFMG 300

A study of concepts, principles, and procedures of accounting system design, installation, implementation, auditing, and maintenance in relating to system objectives, information requirements, constraints, system elements, and considerations on a computerized basis.

# Back to Top

# **ACCT 471 International Accounting**

3c-01-3sh

**Prerequisites:** ACCT 311 for Accounting majors or ACCT 300 for non-Accounting majors

A comparative study of the effects of differences in cultural and business philosophies on national and international accounting policies. Specific financial accounting controversies, such as accounting for transactions involving foreign

currency exchanges, will be discussed. International management accounting topics will include international transfer pricing policies, performance evaluations of multinational managers and divisions, and management information systems. International aspects of financial planning, auditing, and taxation practices will also be reviewed.

## **ACCT 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

# **ACCT 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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#### **ACCT 488 Internship in Accounting (Industrial and Government)**

6sh

**Prerequisites:** Consent of departmental chairperson and dean, Eberly College of Business and Information Technology; cumulative 2.75 GPA and 3.0 GPA in accounting courses

Practical experiences, generally totaling 400 hours, in an industrial or government accounting setting.

### **ACCT 493 Internship in Accounting (Public)**

6sh

**Prerequisite:** Consent of departmental chairperson and dean, Eberly College of Business and Information Technology; 3.00 cumulative GPA and 3.00 GPA in accounting courses

Practical experiences, generally totaling 400 hours, with a public accounting firm. Last modified at 11:13 PM on 09/22/2000.

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This information is maintained by the Office of the Registrar, with approval from the University Senate.

2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# **Business Law**

# Department of Finance and Legal Studies Eberly College of Business and Information Technology

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

### BLAW 235 BLAW 281 BLAW 336 BLAW 337 BLAW 382 BLAW 383 BLAW 440 BLAW 481 BLAW 482

Note: All courses at the 300 and 400 level are open only to students with junior or senior standing. All students, regardless of major or program affiliation, must meet course prerequisite requirements in order to enroll for a given course. Business majors (except those majoring in Business Education) who have not achieved Junior Standing are normally not permitted to enroll in 300- or 400-level courses.

#### **BLAW 235 Introduction to Business Law**

3c-01-3sh

An introduction to legal systems, torts, contracts, and sales law.

#### **BLAW 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

# **BLAW 336 Law of Business Organizations**

3c-01-3sh

Prerequisite: **BLAW 235** 

A study of the law dealing with commercial paper, agency, partnerships, corporations, and bankruptcy.

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#### **BLAW 337 Consumer Law**

3c-01-3sh

Nature of law as it pertains to the consumer. Attention to consumer protection relationships; real and personal property; credit; environmental law; law pertaining to employment; landlord-tenant relationships; product liability; insurance; and family law.

#### **BLAW 382 Real Estate Fundamentals**

3c-01-3sh

Designed to acquaint the student with the language, principles, and laws that govern the business of real estate. Emphasis will be on the underlying concepts of land, property, rights in realty, and the means, methods, and laws that govern the conveyance of these rights. Required course for taking the Pennsylvania Real Estate Sales Exam.

#### **BLAW 383 Real Estate Practice**

3c-01-3sh

Prerequisite: **BLAW** 382

One of the two courses required by the Pennsylvania Real Estate Commission in order to take the Pennsylvania Real Estate Sales Licensing Exam. Topics include real estate brokerage, the real estate market, listing contracts, the Pennsylvania Real Estate Licensing and Registration Act and its rules and regulations, appraisal, property management, fair housing laws, ethical practices for real estate professionals, and real estate math.

#### Back to Top

#### **BLAW 440 Business Negotiations**

3c-01-3sh

**Prerequisites:** BLAW 235, junior standing

Open to all majors meeting the prerequisites. Covers the basic theories and strategies of negotiation in the business environment and provides instruction and practice to develop negotiation skills. Focuses on the knowledge and skills needed in intercompany and intracompany negotiations. Focuses on neither collective bargaining nor labor negotiations.

### **BLAW 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

## **BLAW 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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# **Quantitative/Business**

Department of Management Information Systems and Decision Sciences Eberly College of Business and Information Technology

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

#### QBUS 215 QBUS 281 QBUS 380 QBUS 401 QBUS 481 QBUS 482

**Note:** All courses at the 300 and 400 level are open only to students with junior or senior standing. All students, regardless of major or program affiliation, must meet course prerequisite requirements in order to enroll for a given course. Business majors (except those majoring in Business Education) who have not achieved Junior Standing are normally not permitted to enroll in 300- or 400-level courses.

# **QBUS 215 Business Statistics**

3c-01-3sh

Prerequisites: MATH 121, MATH 214

Expands upon the probabilistic concepts developed in MATH 214 to orient the student toward managerial decision making using quantitative methodologies. Topics covered include classical regression analysis, forecasting, Bayesian decision theory, linear programming, and simulation.

#### **QBUS 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are primarily for lower-level undergraduate students.

#### **QBUS 380 Introduction to Management Science**

3c-01-3sh

**Prerequisite: OBUS 215** 

Discussion and application of mathematical models used in managerial decision making. Linear programming, Markov processes, queuing theory, EOQ models, and simulation techniques are among the topics covered.

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# **QBUS 401 Forecasting Methods for Business**

3c-01-3sh

**Prerequisite: OBUS 215** 

Designed to train the students to understand the nature of forecasting problems and the techniques of forecasting methods and their business applications. Computer statistical packages are incorporated into the course so that forecasting methods and models can be applied to real-world problems and the relationships that exist between variables can be examined.

#### **QBUS 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

## **QBUS 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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# **Administrative Services**

**Department of Technology Support and Training Eberly College of Business and Information Technology** 

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

#### ADMS 101 ADMS 221 ADMS 231 ADMS 321 ADMS 342 ADMS 481 ADMS 482

**Note:** All courses at the 300 and 400 level are open only to students with junior or senior standing. All students, regardless of major or program affiliation, must meet course prerequisite requirements in order to enroll for a given course.

#### **ADMS 101 Introduction to Business**

3c-01-3sh

An overview of the principles, practices, and methods common to most business firms in a private enterprise system. (Not open to juniors and seniors in Business)

#### **ADMS 221 Business Technical Writing**

3c-01-3sh

**Prerequisite:** ENGL 101

Application of business and technical writing styles, letters, memos, reports, procedures, and manuals are some areas of concern. Emphasis will be on clear, concise writing style. (May not be used as a substitute for ADMS 321)

#### **ADMS 231 Speech Communication for Professionals** 1c-0l-1sh

Students will study theory and principles of effective oral presentations in a professional setting. Content includes audience analysis, management of speech anxiety, topic selection and refinement, proper selection and use of visual aids, and speech forms. Students will build professional presentation skills as they fulfill course assignments to develop, critique, and deliver professional presentations.

#### **ADMS 321 Business and Interpersonal Communications**

3c-01-3sh

Prerequisite: ENGL 101, ENGL 202

A study of communication theory and principles as applied to business situations and practices; development of communication skills in areas of communication such as speaking, writing, listening, and nonverbal communicating. Emphasis will be on building effective interpersonal relations in a business environment.

## **ADMS 342 Intercultural Business Communication**

3c-01-3sh

**Prerequisite:** Junior standing

Provides an in-depth study and theoretical understanding of intercultural business communication, including international, national, ethnic, racial, and socioeconomic cultures. Students will explore practices, trends, and difficulties of people primarily identified with one culture, attempting to interact with people of another culture through speaking, listening, writing, and nonverbal means. Problems of intercultural communication situations for business will be pinpointed, elements of the problems clarified, and guidelines projected for problem mitigation.

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#### **ADMS 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are offered primarily for upper-level undergraduate students.

#### **ADMS 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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# **Finance**

# **Department of Finance and Legal Studies Eberly College of Business**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

<u>FIN 220 FIN 281 FIN 310 FIN 320 FIN 322 FIN 324 FIN 355 FIN 385 FIN 410 FIN 420 FIN 422 FIN 424 FIN 481 FIN 482 FIN 493</u>

**Note:** All courses at the 300 and 400 level are open only to students with junior or senior standing. All students, regardless of major or program affiliation, must meet course prerequisite requirements in order to enroll for a given course. Business majors (except those majoring in Business Education) who have not achieved Junior Standing are normally not permitted to enroll in 300- or 400-level courses.

#### FIN 220 Essentials of Finance

3c-01-3sh

Provides students with a survey of three fundamental areas of finance: 1) Corporate Finance, 2) Basic Investment, and 3) Financial Intermediation and the Monetary System. Students will be introduced to financial analysis, planning, and control; to the management (the acquisition and allocation) of funds; and to the fundamentals of the time value of money and capital budgeting. Students will be familiarized with the basic investment markets, fundamental and technical analysis, and portfolio analysis. Students will also consider the influence of government and financial institutions on interest rates, sources of finance, investment of funds, and finance in general. (Offered for Associate Degree Program only; may not be used as a substitute for FIN 310)

#### **FIN 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

#### FIN 310 Finance I

3c-01-3sh

Prerequisites for business majors: ACCT 202, MATH 214

Prerequisites for non-business majors: ACCT 202, MATH 214 or 217 (MATH 214 recommended)

The study of the methods of securing and managing funds on short, intermediate, and long-term bases. The financial analysis, planning, and control of a corporation. Also covered is working capital management.

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#### FIN 320 Finance II

3c-01-3sh

**Prerequisites:** FIN 310, upper division only

Continues FIN 310 and covers topics on long-term external financing of the firm, capital budgeting, valuation of the

firm, mergers, international business finance, and business failures.

#### **FIN 322 Life Insurance**

3c-01-3sh

**Prerequisite:** FIN 310

Comprehensive study of that insurance which provides protection against the economic loss caused by termination of earning capacity. Analysis benefits, underwriting, rate making, and legal doctrines.

### FIN 324 Principles of Investments

3c-01-3sh

**Prerequisite:** FIN 310

An analysis of various types of securities and other forms of investment possibilities and a study of sound investment policies from a corporate viewpoint. Factors influencing the general movement of security prices and the return from investments are considered.

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# FIN 355 Financial Analysis Using Lotus 1-2-3

3c-01-3sh

**Prerequisites:** BEDU/COSC/IFMG 101 and FIN 310

Develops the financial students' computer modeling and analysis skills. Students will be taught how to utilize current computing resources, electronic spreadsheet, and other computing software to analyze, model, and solve a variety of financial problems.

#### FIN 385 Securities and Commodities Markets

3c-01-3sh

Prerequisites: FIN 320, 324

The study of the structure of security and commodity markets; the nature of speculative transaction and methods of trading; analysis of pricing; and the objectives of security and commodity market regulation.

# **FIN 410 Financial Institutions and Markets**

3c-01-3sh

Prerequisite: FIN 324

Review of the entire structure of financial institutions, money, and capital markets, of which the business enterprise is both a supply and demand factor, and structure and dynamics of interest-rate movements.

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### FIN 420 Investment Analysis

3c-01-3sh

Prerequisites: FIN 320, 324

Integrates the work of the various courses in the finance areas and familiarizes the student with the tools and techniques of research in the different areas of investments.

#### **FIN 422 Seminar in Finance**

3c-01-3sh

**Prerequisites:** FIN 320, 324 seniors only

Primarily for the senior Finance major, covers topics in all areas of finance by using recent articles, cases, discussions, speakers, and a financial simulation game.

# **FIN 424 International Financial Management**

3c-01-4sh

**Prerequisite:** FIN 310

The financial management concepts, useful in a single-country context, are adapted for the international variables and constraints caused by being international. Provides an insight into unique issues and problems the manager of the

multinational enterprise will face, such as working capital management; capital budgeting process; financing and investing abroad; capital and money markets; foreign exchange markets; and risk management.

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### **FIN 481 Special Topics**

var-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are offered primarily for upper-level undergraduate students.

#### FIN 482 Independent Study

var-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

#### **FIN 493 Finance Internship**

var-3-12sh

**Prerequisites:** FIN 320, 324, consent of chairperson and dean

Practical experience in the finance field.

Note: Internship FIN 493 can be taken, if the student qualifies, as a general elective. It does not fulfill the major-area

elective requirement.

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# Management

#### **Department of Management**

**Eberly College of Business and Information Technology** 

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

MGMT 275 MGMT 281 MGMT 300 MGMT 305 MGMT 310 MGMT 311 MGMT 325 MGMT 330 MGMT 334 MGMT 350 MGMT 351 MGMT 400 MGMT 401 MGMT 402 MGMT 403 MGMT 406 MGMT 428 MGMT 432 MGMT 437 MGMT 438 MGMT 452 MGMT 454 MGMT 459 MGMT 481 MGMT 482 MGMT 492 MGMT 493 MGMT 495

**Note:** All courses at the 300 and 400 level are open only to students with junior or senior standing. All students, regardless of major or program affiliation, must meet course prerequisite requirements in order to enroll for a given course. Business majors (except those majoring in Business Education) who have not achieved Junior Standing are normally not permitted to enroll in 300- or 400-level courses.

#### **MGMT 275 Introduction to Entrepreneurship**

3c-01-3sh

**Prerequisites:** ACCT 201, ECON 121, sophomore status, only for nonmajors, permission by department Entrepreneurship is defined, common myths are discussed, and characteristics of entrepreneurs are identified. Basic characteristics of entrepreneurs are reviewed. Includes topics such as the psychology of entrepreneurship; economic and social aspects of entrepreneurship; history; techniques of purchasing a company; new venture initiation; and risk taking.

#### **MGMT 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

### **MGMT 300 Human Resource Management**

3c-01-3sh

Prerequisite: PSYC 101

Designed to recognize and evaluate the application of behavioral science approaches in the study of human resource management. Topics include recruiting and selection, training, management development, performance evaluation, communications, wage and benefit programs, and management-labor relations.

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#### **MGMT 305 Organizational Staffing**

3c-01-3sh

Prerequisites: MGMT 310, MATH 214

Focuses on the theoretical, technical, administrative, and legal issues involved in the recruitment, selection, placement,

and promotion of individuals by organizations. Topics covered include human resource planning, job analysis, job description and specifications, recruitment, selection process, equal employment opportunity and affirmative action, reliability and validity of selection instruments and techniques, and contemporary issues in selection.

## **MGMT 310 Principles of Management**

3c-01-3sh

Provides the student with an in-depth identification and understanding of the relevant theories, concepts, and principles underlying the management function.

#### **MGMT 311 Human Behavior in Organizations**

3c-01-3sh

**Prerequisite:** PSYC 101

Human problems of management. Basic ideas and theories from the behavioral sciences as they apply to human behavior in organizations are presented. Management solutions to problems resulting from individual-organization interaction are emphasized.

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#### **MGMT 325 Small Business Management**

3c-01-3sh

Prerequisites: MGMT 275, MKTG 320, MGMT 310

A survey course emphasizing those aspects of small business management not covered elsewhere in the student's program. Key topics include Real Estate, Site Selection, and Facilities Management; Purchasing Management, Vendor Relations, and Inventory Systems; Plant Security, Loss Control, Risk and Insurance Management; Human Resources Management, Employee Benefits, Motivation, and Leadership; Small Business Market Research, Customer Services Management, and Pricing. A review of other elements of the small firm's milieu is included as a necessary contextual element (e.g., planning, accounting, financing, law).

### **MGMT 330 Production and Operations Management**

3c-01-3sh

**Prerequisites:** MATH 121, MATH 214, junior status, Eberly College of Business and Information Technology or approved major

A study of the process of converting an organization's inputs into outputs whether in goods-producing or service industries. Provides an overview of concepts, tools, and techniques used in management of production and operations function in organizations.

## **MGMT 334 Quality Management**

3c-01-3sh

**Prerequisite:** MGMT 330

Emphasizes the philosophy that quality is an organizationwide phenomenon that influences every aspect of its operations. An overview of current quality management philosophies and tools and techniques for managing quality in manufacturing and services.

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#### **MGMT 350 International Business**

3c-01-3sh

**Prerequisite:** MGMT 310

A study of the international dimensions of business and the critical environmental and organizational factors that affect managerial approaches in the international arena. Focuses upon the management problems stemming from the movement of goods, human resources, technology, finance, or ownership across international boundaries. (Also offered as MKTG 350)

#### **MGMT 351 International Management**

3c-01-3sh

**Prerequisite:** MGMT 310

Provides the student with a general foundation on managing multinational corporations (MNCs). Examines the macroand structural-level issues of MNCs. Focuses on planning, organization structure, managerial decision making, and human resource management in global structures and differences between MNCs and domestic organizations.

### **MGMT 400 Compensation Management**

3c-01-3sh

**Prerequisite:** MGMT 300

Studies the policies and programs that help managers design and administer compensation systems for private and public sector enterprises. Includes motivation theories and practice designing of compensation systems.

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### **MGMT 401 Management Development and Training**

3c-01-3sh

Prerequisites: MGMT 300, MGMT 310

Principles, problems, and procedures in planning, organizing, directing, and controlling all aspects of training and development programs in a business enterprise. Methods of improving and development of managerial skills are emphasized.

## MGMT 402 Seminar in Human Resource Management

3c-01-3sh

**Prerequisites:** MGMT 300, graduating senior

An integrative course in Human Resource Management. Considers current issues in human resource management literature and contemporary topics in the human resource management field using case studies.

#### **MGMT 403 Small Business Planning**

3c-01-3sh

Prerequisites: MGMT 325, ACCT 300, BEDU/COSC/IFMG 101

Integrates the content of much of the business core and relates it to the business planning for small businesses and entrepreneurial efforts. The student will be introduced to the concepts which will support the development of an effective business plan.

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#### **MGMT 406 Human Resources Management Research**

3c-01-3sh

Prerequisites: **QBUS 215**, MGMT 300

The study of the nature of research questions, research methods, research design, collection, analysis, and interpretation of data. Focuses on design, development, implementation, and evaluation of Human Resources Management programs. Applications in employee selection, performance measurement, work attitudes and motivation, employee training, and development areas.

#### **MGMT 428 Seminar in Management**

3c-01-3sh

**Prerequisites: MGMT 310** 

An integrative course in management. Considers current literature in the field and contemporary issues in management using case studies.

# **MGMT 432 Business and Society**

3c-01-3sh

An overview of the interactions between business and the larger social system in which it operates. Considers the problem, solutions, and future directions of societal issues and their relationships to the business environment. Topics discussed include consumerism, the morality of advertising, self-regulation, pollution and ecology, overpopulation,

government regulation, and the social and ethical responsibilities of business and industry. (Also offered as MKTG 432; may not be taken for duplicate credit)

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#### **MGMT 437 Operations Management System**

3c-01-3sh

**Prerequisite:** MGMT 330

A theoretical and practical understanding of manufacturing and service planning and control, including systems modeling, purchasing and sourcing, information and control including MPS, MRP, and MRP-II, scheduling, etc. Manufacturing and service technologies and trends are also emphasized. Computer applications are used for understanding the interrelationships between various components of operations system.

#### **MGMT 438 Seminar in Operations Management**

3c-01-3sh

Prerequisites: MGMT 330, senior standing

An integrative course in operations management. Considers and analyzes the current literature and contemporary topics in the area of providing service and producing goods. Case studies and field trips are used to provide students with a comprehensive knowledge of the theories, current practices, and trends in several topical areas of operations management. Students will learn to present their findings and analyses in a professionally written format.

## **MGMT 452 Comparative Management**

3c-01-3sh

**Prerequisite:** MGMT 350

The study of the similarities and differences among managers, management practices, and organizations in different cultures. A variety of comparative management systems, models, and theories are presented, and research findings are examined.

#### **MGMT 454 International Competitiveness**

3c-31-3sh

**Prerequisite: MGMT 350** 

The study of the most important challenges that face nations and firms alike in gaining or restoring competitiveness. Focuses on factors that determine the success of nations and their firms in highly dynamic world markets. Various theories, models, and cases dealing with competitive advantage are examined.

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#### **MGMT 459 Seminar in International Management**

3c-01-3sh

Prerequisites: MGMT 454, senior standing

An analysis of recent literature and developments related to global business issues such as strategic alliances, human resource management in global environments, global assignments, Japanese business system, multinational corporations in the world economy.

#### **MGMT 481 Special Topics in Management**

var-1-3sh

Covers advanced, innovative, or exploratory topics and disciplines within management. Specific content items developed by instructor. Credits may be applied to either required (by permission of department chairperson) or free electives in a student's program.

#### **MGMT 482 Independent Study**

var-3sh

**Prerequisite:** Prior approval through adviser, faculty member, department chairperson, dean, and provost's office Individual research and analysis of contemporary problems and issues in a concentrated area of study under the

guidance of a senior faculty member. Approval is based on academic appropriateness and availability of resources.

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### MGMT 492 Small Business/Entrepreneurship Internship

var-3-12sh

**Prerequisites:** MGMT 403, permission of department chairperson, 2.75 cumulative GPA, all other requirements of the Eberly College of Business and Information Technology

Involves practical entrepreneurial experience of on-site consulting with small business firms. Students will generally work for a semester on functionally related topics in accounting, finance, marketing, and MIS or on general topics such as business planning, forecasting, policy, and general management.

#### **MGMT 493 Management Internship**

var-3-12sh

Practical experience to develop knowledge and skills in the application of theory to actual problems in a nonclassroom setting. A maximum of 3sh of internship in the student's major may be applied toward the management and human resource management major area elective requirements. Additional internship credit must be used as free electives only. Admission only by permission of the department chairperson and dean, Eberly College of Business and Information Technology.

#### **MGMT 495 Business Policy**

3c-01-3sh

**Prerequisites:** Completion of all Business Core requirements or permission; graduating seniors A capstone case analysis course designed to give the student practice in applying business theories to the solution of management problems. An analysis of how top management determines strategy and policy and influences the philosophy and character of the company. Develops in the student a general management viewpoint that integrates the various functions of the organization.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# **Marketing**

#### **Department of Marketing**

**Eberly College of Business and Information Technology** 

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

MKTG 320 MKTG 321 MKTG 350 MKTG 351 MKTG 420 MKTG 421 MKTG 422 MKTG 430 MKTG 431 MKTG 432 MKTG 433 MKTG 434 MKTG 435 MKTG 436 MKTG 437 MKTG 481 MKTG 482 MKTG 493

Note: All courses at the 300 and 400 level are open only to students with junior or senior standing. All students, regardless of major or program affiliation, must meet course prerequisite requirements in order to enroll for a given course. Business majors (except those majoring in Business Education) who have not achieved Junior Standing are normally not permitted to enroll in 300- or 400-level courses.

#### **MKTG 320 Principles of Marketing**

3c-01-3sh

**Prerequisite:** ECON 122

A study of those activities necessary to the design, pricing, promotion, and distribution of goods and services for use by organizations and ultimate consumers.

#### **MKTG 321 Consumer Behavior**

3c-01-3sh

Prerequisites: MKTG 320 and PSYC 101

A survey of noteworthy contributions of behavioral science and research on consumer purchasing and decision-making process, with particular attention to formal and informal influence patterns.

#### **MKTG 350 International Business**

3c-01-3sh

**Prerequisite:** MGMT 310

A study of the international dimensions of business and the critical environmental and organizational factors that affect managerial approaches in the international arena. Focuses upon the management problems stemming from the movement of goods, human resources, technology, finance, or ownership across international boundaries. (Also offered as MGMT 350)

#### **MKTG 351 Self-Marketing**

1c-0l-1sh

**Prerequisite:** Junior standing (as per credits earned)

The focus is on the development of both long-term and short-term self-marketing plans and self-marketing packages. Theories of managerial marketing, professional selling, market research, and advertising applied to self-marketing in order to prepare students to seek internship experience.

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# Prerequisites: MKTG 320 and MKTG 321

An analysis of marketing and operational problems and policies involved in planning, organizing, coordinating, and controlling a total marketing program.

## **MKTG 421 Marketing Research**

3c-01-3sh

Prerequisites: MKTG 320 and OBUS 215

Nature, methods, analysis, and application of present-day marketing research techniques utilized in the solution of practical marketing problems.

# **MKTG 422 Seminar in Marketing**

3c-01-3sh

**Prerequisites:** MKTG 420 and MKTG 421, graduating senior

A terminal course designed for majors in marketing; considers current literature in the field, case problems pertaining to the total marketing effort, and current problems of actual companies.

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#### **MKTG 430 International Marketing**

3c-01-3sh

**Prerequisite:** MKTG 320

International marketing and markets are analyzed. Special consideration is given to the significance of government regulations; organization structures of export and import enterprises; and credit policies.

# **MKTG 431 Industrial Marketing**

3c-01-3sh

**Prerequisite:** MKTG 420

Concerned with the major activities involved in the marketing of industrial goods and services, including the industrial marketing system, marketing information needs of the industrial firm, industrial marketing implementation and control, and channel, pricing, product, and promotional strategies for industrial goods.

#### **MKTG 432 Business and Society**

3c-01-3sh

An overview of the interactions between business and the larger social system in which it operates. Considers the problems, solutions, and future directions of societal issues and their relationships to the business environment. Topics discussed include consumerism, the morality of advertising, self-regulation, pollution and ecology, overpopulation, government regulation, and the social and ethical responsibilities of business and industry. (Also offered as MGMT 432; may not be taken for duplicate credit)

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#### **MKTG 433 Advertising**

3c-01-3sh

Prerequisite: MKTG 320

An introduction to the principles, practices, and creations of advertising. Use of various media and legal, economic, social, and ethical aspects of advertising are also considered.

#### **MKTG 434 Marketing Logistics**

3c-01-3sh

**Prerequisites:** Junior/senior standing, MKTG 320 and MGMT 330

The focus is on planning, organizing, and controlling the marketing logistics function. In addition to the acquisition and application of management science methods, students will integrate and apply previously gained knowledge to analyze and solve complex marketing logistics problems. Areas of major concentration include facility location, transportation, inventory management, and customer service.

# MKTG 435 Professional Selling and Sales Management

3c-01-3sh

Prerequisite: MKTG 320

Introduces students to the role and nature of modern personal selling in marketing. Theory and practice of personal selling process, sales planning, delivering sales presentations, and relationship marketing are emphasized. Basics of managing sales force including territory management, recruiting, training, and compensating sales force are also covered.

### **MKTG 436 Retail Management**

3c-01-3sh

**Prerequisite: MKTG 320** 

Introduces students to all facets of retailing including the history of retailing, retail theories, and decision-making in retailing framework.

# **MKTG 437 Services Marketing**

3c-01-3sh

**Prerequisite:** MKTG 320

Focuses on current theories and applications of marketing techniques in the fast-growing area of services in the business, government, and nonprofit sectors. Emphasis placed on characteristics of services and their marketing implications and formulation and implementation of marketing strategies for service firms.

# **MKTG 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Covers advanced, innovative, or exploratory topics and disciplines within marketing. Specific content items developed by instructor. Credits may be applied to either required (by permission of departmental chairperson) or free electives in a student's program. Special topics numbered 481 are primarily for upper-level undergraduate students.

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#### **MKTG 482 Independent Study**

var-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office. Approval is based on academic appropriateness and availability of resources.

Individual research and analysis of contemporary problems and issues in a concentrated area of study under the guidance of a senior faculty member.

#### **MKTG 493 Marketing Internship**

var-3-12sh

Practical experience in the marketing field to develop knowledge and experience in the practical application of theory to actual problems in a nonclassroom situation. A maximum of 3sh of internship in the student's major may be applied toward the marketing major-area elective requirements. Additional internship credit must be used as free electives only. Admission only by permission of the department chairperson and the dean, Eberly College of Business and Information Technology.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# Art (Studio)

# **Department of Art College of Fine Arts**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

<u>ART 100 ART 111 ART 112 ART 113 ART 114 ART 120 ART 211 ART 213 ART 214 ART 215 ART 216 ART 217 ART 218 ART 219 ART 281 ART 421 ART 451 ART 452 ART 453 ART 454 ART 455 ART 457 ART 459 ART 460 ART 481 ART 482 ART 493</u>

# **ART 100 Arts of the Twentieth Century**

1c-31-3sh

Designed to expand student response to visual, aural, and kinetic art forms of this century with special emphasis on recent decades. Includes lecture, studio, and field experiences.

# **ART 111 Figure Drawing**

0c-6l-3sh

A foundation course in drawing, including a study of the structure of drawing and composition with a variety of media and subject matter.

# **ART 112 Fundamentals of Drawing**

0c-6l-3sh

Seeks to integrate basic principles and fundamentals of drawing and design.

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#### **ART 113 Three-Dimension Design**

0c-6l-3sh

Basic elements and principles of design are studied. A course in design in three dimensions.

# **ART 114 Color and Two-Dimensional Design**

0c-6l-3sh

Focuses on the consistent properties of color and the manner in which two-dimensional design can be organized. Specific attention is given to the complex interactions of color within two-dimensional design.

#### **ART 120 Principles of Design**

0c-41-2sh

Principles of design and color are studied and applied to a crafted object. Major emphasis on aesthetic quality inherent in designing with materials.

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# **ART 211 Painting**

0c-6l-3sh

An introductory course in painting in which a variety of materials, techniques, and approaches are explored.

#### ART 213 Woodworking: Function and Form

0c-6l-3sh

Involves the study of woodworking and furniture design as it relates to the individual designer-artist. Students will experience a formal background in both woodworking technique and the application of design.

#### **ART 214 Ceramics**

0c-6l-3sh

A general introduction to the techniques and aesthetics of clay. The student will work both at the wheel and with hand building methods.

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#### **ART 215 Sculpture**

0c-6l-3sh

An introductory course in sculpture with emphasis on study of form as well as visualizing in the third dimension.

#### **ART 216 Basic Metals**

0c-6l-3sh

An introduction to metal work with emphasis upon creation of functional and nonfunctional art objects. Approached from the viewpoint of beginner learning basic processes of metal fabrication.

#### **ART 217 Printmaking**

0c-6l-3sh

An introduction to basic techniques of production of fine prints including work in relief, intaglio, lithograph, and serigraph processes.

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#### **ART 218 Graphic Design**

0c-6l-3sh

Students explore various techniques and their application to such commercial art projects as package design, trademark, and other design problems. Lettering is stressed, both instant type and hand lettering.

#### **ART 219 Fibers**

0c-6l-3sh

Provides students with introductory working knowledge in design and execution of projects in non 4/harness loom weaving and related fabric areas. Other fiber techniques, including handmade paper, available for students to explore as desired.

### **ART 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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#### **ART 421 Advanced Drawing**

0c-6l-3sh

**Prerequisites:** ART 111 and 112

Designed to meet the needs of the student who has some background in the field. Problems of composition, two- and three-dimensional relationships, and surface are on an individual basis.

#### **ART 451 Advanced Woodworking: Function and Form**

0c-6l-3sh

**Prerequisite:** ART 213

Offers advanced training and skills involving the study of contemporary furniture design and woodworking. Emphasis will be on a technical and aesthetic point of view.

# **ART 452 Advanced Ceramics**

0c-6l-3sh

**Prerequisite:** ART 214

Continued exploration of the field of ceramic production, along with kiln firing and glaze formulation.

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#### **ART 453 Advanced Sculpture**

0c-6l-3sh

**Prerequisite:** ART 215

Gives the student an opportunity to pursue independent study in sculpture. Materials and processes will be individually chosen and the work related to broadening concepts.

# **ART 454 Advanced Painting**

0c-6l-3sh

**Prerequisite:** ART 211

Individual experimentation and exploration by the painter and investigation of the various technical approaches.

#### **ART 455 Advanced Graphic Design**

0c-6l-3sh

**Prerequisite:** ART 218

Stresses advanced techniques in layout and illustration. The student explores ideas, such as creation of trademarks and how products are designed. Layouts are analyzed as to their quality. Package design is studied.

#### Back to Top

#### **ART 457 Advanced Printmaking**

0c-6l-3sh

**Prerequisite:** ART 217

Student elects to study one of the printmaking processes in greater depth and works toward development of own techniques, working processes, and ideas.

#### **ART 459 Advanced Fibers**

0c-6l-3sh

**Prerequisite:** ART 219

Provides student with a working knowledge in design and execution of projects in weaving and related areas. Other fiber techniques, including handmade paper, will be available for the students to explore as desired.

#### **ART 460 Advanced Metals**

0c-6l-3sh

**Prerequisite:** ART 216

Design and processes associated with art of metal are given greater concentration. The developing artist is encouraged to investigate, in depth, one or more of the metal arts as an extension of the basic course.

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### **ART 481 Special Topics**

var-1-3sh

May provide an in-depth study of a narrowly defined area of the discipline. Subject matter may change with repeated offering of the course. May be repeated for credit.

# **ART 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

### **ART 493 Internship**

var-3-12sh

Designed for art majors who wish to receive practical experience working within professional situations which relate to the student's artistic and occupational goals.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# **Industrial and Labor Relations**

### Department of Industrial and Labor Relations College of Health and Human Services

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

### ILR 281 ILR 426 ILR 480 ILR 481 ILR 482 ILR 499

### **ILR 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

### ILR 426 Case Studies in Labor-Management Relations

3c-01-3sh

In-depth study of daily labor-management relationships in a variety of organizational settings through utilization of case study technique. Focuses on a problem-solving approach to the legal and contract administration components of the labor-management relationship.

### ILR 480 Principles and Practices of Collective Bargaining

3c-01-3sh

An examination of the historical, legal, and functional parameters of collective bargaining. Topics covered include the organizing process, negotiations, contract administration, dispute resolution, and public sector labor relations.

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### ILR 481 Special Topics in Industrial and Labor Relations

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are offered primarily for upper-level undergraduate students.

### **ILR 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

### **ILR 499 Independent Study**

### var-1-3sh

Independent reading and research under the direction of a faculty member.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# **Safety Sciences**

**Department of Safety Sciences College of Health and Human Services** 

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

<u>SAFE 101 SAFE 102 SAFE 111 SAFE 210 SAFE 211 SAFE 231 SAFE 232 SAFE 245 SAFE 281 SAFE 299 SAFE 301 SAFE 303 SAFE 311 SAFE 345 SAFE 347 SAFE 370 SAFE 380 SAFE 399 SAFE 401 SAFE 402 SAFE 412 SAFE 441 SAFE 461 SAFE 462 SAFE 465 SAFE 472 SAFE 481 SAFE 482 SAFE 488 SAFE 493</u>

### SAFE 101 Introduction to Occupational Safety and Health

3c-01-3sh

Covers the theory and history of occupational hazard control, effects of hazards and failures on organizational control and productivity, safety and health legislation, and accident causation. Also previews aspects of recognizing, evaluating, and understanding control of safety and health hazards, acquiring hazard data, and the use of hazard analytical tools. Communication techniques in safety and health management are stressed, along with the development of safety and health programs.

### SAFE 102 Introduction to Mine Safety and Health

3c-01-3sh

Designed to provide the student with an in-depth background of the problems involving mine safety. A historical approach to coal and mineral mining is reviewed; legislative influences such as the Federal Coal Mine Health and Safety Act, the Metal and Nonmetal Mine Health and Safety Act, and the Occupational Safety and Health Act are discussed in depth; mining techniques, methods, and systems are discussed. Management of mine health and safety programs is presented. Federally mandated training of employees is covered. (Offered occasionally)

### SAFE 111 Principles of Industrial Safety I

3c-01-3sh

Prerequisite: <u>SAFE 101</u>

Stresses an understanding of the complexity of the industrial hazard control problem by thoroughly examining elements of safety and health enumerated in the OSHA promulgated standards and various consensus standards. Emphasis directed at plant layout and design, powered industrial vehicles, boilers and unfired pressure vessels, machine guarding, robotics safety, and an introduction to industrial processes.

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### SAFE 210 Environmental Safety and Health Regulations

3c-0l-3sh

**Prerequisites:** CHEM 102, SAFE 101, or permission of instructor

Offers the student a practical approach to the understanding of, and compliance with, the various environmental regulations that impact on business. A thorough discussion of the definitions, categories, and evaluation of hazardous materials is included. Environmental laws covered include the Clean Water Act, the Clean Air Act, the Resource Conservation and Recovery Act, the Comprehensive Environmental Response, the Compensation and Liability Act, the Occupational Safety and Health Act, and other related laws.

### SAFE 211 Principles of Industrial Safety II

3c-31-4sh

Prerequisite: <u>SAFE 111</u>

Stresses an understanding of the complexity of the industrial hazard control problem by thoroughly examining elements of safety and health enumerated in the OSHA promulgated standards and various consensus standards. Emphasis is placed on personal protective equipment, welding and cutting, walking and working surfaces, materials handling and storage, electrical safe work practices, and construction safety. Application of hazard control strategies is accomplished in laboratory sessions.

### **SAFE 231 Principles of Mine Safety I**

3c-01-3sh

**Prerequisite:** SAFE 102

Focuses on the various aspects of mining operations such as slope and shaft development; mine design; ground control; hoisting; man-trips; haulage; mining equipment; mine emergency planning and procedures; mine communications and maintenance. (Offered occasionally)

### **SAFE 232 Principles of Mine Safety II**

3c-01-3sh

Prerequisite: <u>SAFE 102</u>

Covers surface mining operations such as slope stability, equipment, ground water, and control. Mine-related processing operations are discussed. Provides an in-depth study of the various controls of electrical hazards and ignition sources such as permissible equipment and electrical distribution systems. The uses of explosives and blasting practices, handling, storing, and transportation with emphasis on causes of explosion involving dust and gases are discussed. (Offered occasionally)

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### **SAFE 245 Product Safety**

3c-01-3sh

**Prerequisite:** MA217

Traces flow of applicable legislation dealing with consumerism and product safety. Corporate liability for product safety emphasized through case studies. Students are familiarized with the evolving role of Consumer Product Safety Commission. Corporate management of product development and safety detailed with emphasis on systems safety analysis, standards, and product testing.

### **SAFE 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

### **SAFE 299 Cooperative Education I**

0c-01-0sh

**Prerequisites:** Approval of academic advisor, co-op coordinator, and department chairperson

The initial experience in a program designed to combine classroom theory with practical application through jobrelated experiences. Open to SAFE majors and minors usually in their sophomore year. Students are employed by organizations outside western Pennsylvania where there is an ongoing hazard control program under the direction of an experienced professional. The student is required to be in good academic standing and to serve a minimum of two alternating work experiences.

### SAFE 301 Health Hazard Identification

3c-01-3sh

Prerequisites: CHEM 102, PHYS 111, MATH 122, BIOL 155

Provides an understanding of the primary health hazards found in industry and their effects on the human body. Students learn to recognize hazards involved with air contaminants, noise, heat, radiation, chemicals on the skin, and other stressors. Emphasis is placed on the study of occupational disease, industrial toxicology, and use of threshold limit values.

### SAFE 303 Control of Health Hazards

3c-01-3sh

Prerequisites: SAFE 301, PHYS 112, MATH 217

A study of engineering, administrative, and personal protective equipment as methods of reducing or eliminating hazards to the health of industrial workers. Topics covered include industrial ventilation, noise control, heat control, radiation control, personal protective equipment, and industrial health program.

### **SAFE 311 Industrial Fire Protection**

3c-01-3sh

Prerequisites: CHEM 102, PHYS 112, SAFE 211

Introduces fundamental concepts in protection of industrial workers and property from fire and explosion. Fire chemistry, control of ignition sources in industry, and properties of combustible materials are discussed. Fire detection and extinguishment are covered along with building construction for fire prevention, life safety, fire codes, and related topics.

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### **SAFE 345 Systems Safety Analysis**

2c-31-3sh

Prerequisites: SAFE 211, MATH 217

Focuses on the evaluation of system designs using detailed system analysis techniques. Topics covered include system definition, economics of systems safety, systems safety methodology, mathematics of systems analysis including statistical methods, Boolean Algebra, and reliability. Skills gained include the ability to perform preliminary hazard analysis, failure mode and effect analysis, fault tree analysis, and exercises in the application of fault tree analysis to hardware and man/machine systems. Practical analysis work is accomplished in laboratory sessions.

### **SAFE 347 Ergonomics**

2c-31-3sh

Prerequisites: <u>SAFE 301</u>, <u>BIOL 155</u>

An exploration of the principles which control human performance and its effect upon the safety and reliability of systems. Engineering anthropometry, human perception, biomechanics of motion and work posture, work physiology, and human performance measurement are covered in the context of their application in workplace design. Students will be instructed in methodologies for analysis of tasks and human performance requirements. Important human limitations and ergonomic hazard evaluations, such as lifting and repetitive motion tasks, are studied in laboratory sessions.

### **SAFE 370 Fleet Safety**

3c-01-3sh

**Prerequisites:** SAFE 101, junior standing

Includes topics involved with the development and operation of motor fleet safety programs: driver selection and training, accident investigation and recordkeeping, equipment safety features, preventive maintenance, and driver incentive programs.

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### **SAFE 380 Institutional Safety Management**

3c-01-3sh

### Prerequisite: Junior standing

Historical aspects of safety for both private and public institutions; introduction to trends in liability and institutional safety regulations. Distinctions will be made between employee, visitor, and patient hazards and their control.

### **SAFE 399 Cooperative Education II**

0c-01-0sh

**Prerequisite:** SAFE 299

A second experience in a program designed to combine classroom theory with practical application through job-related experiences. Open to SAFE majors and minors usually in their junior or senior year. Students are employed by organizations outside western Pennsylvania where there is an ongoing hazard control program under the direction of an experienced safety professional. The student is required to be in good academic standing and to serve a minimum of two alternating work experiences.

### **SAFE 401 Mine Ventilation**

2c-3l-3sh

Prerequisites: PHYS 112, SAFE 102, MATH 122, or consent

A study of mine ventilation principles and practices which provide a basic knowledge in design and operation of mine ventilation systems. The topics of airflow physics, ventilation standards, fan fundamentals, pressure losses, required air flows, and overall design are discussed. Specific problems in mine ventilation will be solved. (Offered occasionally)

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### **SAFE 402 Health Hazard Evaluation**

2c-31-3sh

Prerequisites: SAFE 301, PHYS 112, MATH 217

A lecture/laboratory course which provides a basic understanding of techniques used in measuring and evaluating the magnitude of health hazards in industry. Laboratory sessions provide experience in air sampling, noise measurement, heat measurement, particle size analysis, chemical analysis, and evaluation of industrial ventilation systems.

### **SAFE 412 Hazard Prevention Management**

3c-31-4sh

Prerequisites: MATH 217, MGMT 311, junior standing

Teaches various safety management techniques to identify and prevent the occurrence of hazardous behavior and conditions. Devises methods capable of extracting accurate, meaningful data, of collecting, codifying, and processing hazard and loss incident information, and of utilizing data retrieval systems used in cost/benefit decision-making for hazard prevention, safety program and performance evaluation, and risk management.

### **SAFE 441 Accident Investigation**

3c-01-3sh

**Prerequisites:** SAFE 101, junior standing or consent

Focuses on various aspects of accident investigation such as recent theories associated with accident causes, investigative techniques, data acquisition, structure of investigative reports, management responsibilities, and remedial actions. Particular emphasis on determining sequence of events to develop management actions which will prevent recurrence of accidents.

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#### **SAFE 461 Air Pollution**

3c-01-3sh

**Prerequisite:** <u>SAFE 301</u> or consent

Focuses on various major aspects of the air pollution problem. Includes sources of pollution, evaluation and engineering of pollutants, government regulations, atmospheric chemistry and dispersion, and human and nonhuman effects. Particular emphasis on information that is practical for the safety management, industrial health, or environmental health professional.

### SAFE 462 Radiological Health

3c-01-3sh

**Prerequisite:** SAFE 301 or consent

A study of problems associated with ionizing radiation in human environment. Emphasis given to biological effects, radiation measurement, dose computational techniques, exposure control, and local and federal regulations. Study and use of various radiological instruments included.

### SAFE 465 Right-To-Know Legislation

3c-01-3sh

Prerequisites: SAFE 301, SAFE 311, or permission of instructor

Covers both the federal and selected state right-to-know laws and related legislation. The scope, application, and enforcement of the various laws, including specific legal and moral obligations, are discussed. Strategies are explored and developed to identify the means by which employers can gain compliance with regulatory requirements.

### SAFE 472 Process Safety in the Chemical Industry

3c-01-3sh

**Prerequisites:** SAFE 301, SAFE 311, SAFE 345, and senior standing, or permission of instructor Designed to cover all important aspects of loss prevention as it is practiced in the chemical process industries. Its objective is to prepare the safety professional so that he/she may be able to work more effectively with chemists and chemical engineers in joint hazard identification, evaluation, and control projects.

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### **SAFE 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

### SAFE 482 Independent Study

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

### **SAFE 488 Internship**

12sh

**Prerequisites:** Senior standing, all required courses in major, minimum of 2.8 overall and 3.0 GPA in major, and consent

A practicum conducted at an approved occupational setting up to 500 miles away from IUP. Students are required to conduct four major projects. One project will be from each of the following areas: Safety Management, Industrial Safety, Industrial Hygiene, and Fire Protection. Students are accountable to an on-site supervisor and are required to remain in close contact with a Safety Sciences faculty coordinator.

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### SAFE 493 Internship

var-6sh

**Prerequisite:** Senior standing, all required courses in major

All Safety Sciences majors are expected to take this course. It is conducted away from the university at various industrial enterprises. Students are required to provide their own transportation. Intended to allow the student to apply

hazard assessment and safety management practices to actual industrial situations while at same time being exposed to complexities of industrial environment.

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# **Office Systems**

**Department of Technology Support and Training Eberly College of Business and Information Technology** 

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

OSYS 281 OSYS 301 OSYS 310 OSYS 311 OSYS 313 OSYS 315 OSYS 402 OSYS 411 OSYS 412 OSYS 413 OSYS 480 OSYS 481 OSYS 482 OSYS 493

Note: All courses at the 300 and 400 level are open only to students with junior or senior standing. All students, regardless of major or program affiliation, must meet course prerequisite requirements in order to enroll for a given course. Business majors (except those majoring in Business Education) who have not achieved Junior Standing are normally not permitted to enroll in 300- or 400-level courses.

### **OSYS 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Prerequisite: As appropriate to course content Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

### **OSYS 301 Advanced Microcomputer Applications**

3c-01-3sh

**Prerequisite:** BEDU/COSC/IMFG 101, or permission of instructor

Advanced utilization of the microcomputer to enhance productivity of office employees: executive and managerial, professional, and support personnel through optimization of hardware and software. Comparative and evaluative techniques for appropriate selection and implementation of software. Operating environment, integrated suites, multimedia, Internet, and utility software will be emphasized.

#### **OSYS 310 Telecommunications**

3c-01-3sh

Prerequisite: <u>BEDU/COSC/IMFG 101</u>

Provides an introduction to telecommunications in the business environment. Includes an overview of electronic communication systems including a conceptual framework as well as hands-on experience. Concepts of telecommunications technology, applications, and management as they apply to business and industry will be addressed. (Offered as OSYS 400 prior to 2000-2001)

### **OSYS 311 Training Methods in Business and Information Technology Support**

3c-ol-3sh

Prerequisites: PSYC 101, junior standing

Includes the application of theories of adult learning to planning, delivering, and evaluating training for education and information technology. Major emphasis is placed on the planning of instruction. Topics include needs assessment; live and mediated instruction; classroom management; evaluation and follow-up methods; and evaluation of training

strategies.

### **OSYS 313 Office Systems Technologies**

3c-01-3sh

Prerequisite: Junior standing

Emphasis will be on systems hardware, especially the microcomputer. Concepts and design principles common to all microprocessors are studied. Auxiliary hardware, such as reprographics, printers, modems, scanners, and laser technology will be included.

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### **OSYS 315 Records Administration**

3c-01-3sh

**Prerequisite:** BEDU/COSC/IFMG 101, or permission of instructor

Development of the goal of records administration as a system including the input, process, and output components. Records creation, records classification systems, evaluation, retention programs, manual through automated information systems, image technology, form design, record control systems, records manuals, and disaster prevention and recovery will be discussed.

### **OSYS 402 Website Development and Administration**

3c-01-3sh

Prerequisite: <u>BEDU/COMM/COSC/IFMG/LIBR 201</u> or instructor permission

Guides the student through a hands-on, step-by-step process of creating an attractive, well-designed website for an enterprise. The student will learn how to install and configure a WWW server, publish web pages using the latest tools and set up mechanisms to manage and update a website and content.

### **OSYS 411 Microcomputer Support for Office Systems**

3c-01-3sh

Prerequisites: OSYS 301, OSYS 313, and OSYS 400

Includes three dimensions of study relative to office systems—helpdesk management, training and development, and ergonomics. Incorporates practical applications for delivering technical support through the operation of a helpdesk. Requires development and delivery of technological applications and a field study of ergonomic office designs.

### **OSYS 412 Administrative Office Services**

3c-01-3sh

A presentation of fundamental principles and practices used in the development of an office. Specialized areas such as systems analysis, work simplification, forms design, information processing, office machines and equipment, records management, office design and layout, office location and physical environment, office supervision, office manuals, and development of office personnel will be discussed.

### **OSYS 413 Enterprise Technology Support**

3c-01-3sh

Prerequisites: OSYS 313; COSC/IFMG 352; or permission of instructor

Provides a comprehensive and practical knowledge of enterprisewide technology. Topics covered include knowledge management, remote user support, teleconferencing, and network management and enhancement. Students will have hands-on experience working with software, customizing user environments, managing technology security, enhancing and troubleshooting the computing environment.

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### **OSYS 480 Seminar in Business Technology Support**

3c-01-3sh

**Prerequisites:** Graduating seniors only or permission of instructor

Emphasis will be on the solving of office management problems. Provides an opportunity to integrate and apply the

skills and knowledge previously gained in the Business Technology Support major.

### **OSYS 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

### **OSYS 482 Independent Study**

var-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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### **OSYS 493 Internship**

var-3-6sh

**Prerequisites:** Approval of internship coordinator, chairperson, and dean and 2.75 overall GPA and 3.0 GPA in Business

A supervised office experience program with an approved agency (business, industry, and government).

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# **Distributive Education**

**Department of Technology Support and Training Eberly College of Business and Information Technology** 

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

### DEDU 281 DEDU 331 DEDU 413 DEDU 481 DEDU 482

**Note:** All courses at the 300 and 400 level are open only to students with junior or senior standing. All students, regardless of major or program affiliation, must meet course prerequisite requirements in order to enroll for a given course.

### **DEDU 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

### **DEDU 331 Modern Merchandising**

3c-01-3sh

Techniques for planning and controlling inventory, analyzing sales, working with modern systems for handling cash, and using color, line, and design. Practice in preparing merchandise display units.

### **DEDU 413 Methods and Evaluation in Distributive Education II**

3c-01-3sh

Prerequisites: BEDU 111, MKTG 320, DEDU 333, and EDSP 202

Includes two sections of special methods and evaluation in this field. Objectives are to acquaint students with the basic principles of group and individual instruction in various subject matter areas, as well as methods of presentation. Unit plans, lesson plans, demonstrations, and evaluations will be prepared. Students select sections needed for certification.

### **DEDU 481 Special Topics**

3c-01-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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### **DEDU 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in

conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# **Education of Exceptional Persons**

Department of Special Education and Clinical Services College of Education and Educational Technology

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

EDEX 111 EDEX 112 EDEX 221 EDEX 222 EDEX 231 EDEX 300 EDEX 301 EDEX 321 EDEX 340 EDEX 415 EDEX 416 EDEX 417 EDEX 418 EDEX 419 EDEX 425 EDEX 435 EDEX 440 EDEX 480 EDEX 481

### **EDEX 111 Introduction to Exceptional Persons**

3c-01-3sh

Prerequisite: For department majors and official incoming transfers only

Surveys characteristics, needs, problems, and behavior patterns of any person who deviates sufficiently from "normal" to be considered exceptional. Consideration to those who fall intellectually both above and below average and to those who are handicapped visually, acoustically, behaviorally, orthopedically, neurologically, or in respect to speech patterns.

### **EDEX 112 Typical and Atypical Growth and Development**

3c-01-3sh

Prerequisites: <u>EDEX 111</u>, <u>PSYC 101</u>

Presents foundations of human growth from conception, including basic embryogenesis, up to but not including adolescence. Considers the biological, cultural, educational, and parenting influences that shape the child, as well as selective examples of normal and deviant physical and intellectual development.

### **EDEX 221 Methods of Teaching Mathematics to Persons with Disabilities**

3c-0l-3sh

**Prerequisites:** MATH 151, EDEX 111

Emphasizes recent developments in elementary curriculum and instructional techniques for developing concepts; implications of recent resource developments and materials helpful to the prospective special education teacher. Emphasis is also placed on methods of helping children learn mathematical concepts through physical activity and on ways to adapt regular classroom materials to meet needs and abilities of slow and disabled learners.

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### **EDEX 222 Methods of Teaching Reading to Persons with Disabilities**

3c-01-3sh

**Prerequisite:** Sophomore status or above

Presents basic concepts of developmental reading instruction and systematic coverage of the methods of teaching reading from readiness stages through eighth grade. Diagnostic-prescriptive techniques are included.

### EDEX 231 Methods of Teaching Content Area Subjects to Persons with Disabilities

3c-01-3sh

Prerequisites: EDEX 111, GPA 2.5

Presents methods for teaching science and social studies to the mentally and/or physically handicapped. Scope and

sequence of content, as well as evaluative techniques for each content area, are studied. Integration of other content areas and skill areas is stressed. Also stresses teaching in both resource room and less restrictive environments. (Offered as EX 322 prior to Spring, 1998)

### **EDEX 300 Education of Students with Disabilities in Inclusive Elementary Classrooms**

2c-01-2sh

**Prerequisites:** For Early Childhood and Elementary Education Majors only; to be taken only during the semester of the designated methods courses

Examines the issues associated with education of students with diverse learning needs, particularly those with disabilities or who are at risk for school failure. There is an emphasis on special education, particularly the legal rights of students with exceptionalities and their parents, and the responsibilities of educators in addressing those rights. Examines the differential impact of student characteristics on elementary-level school performance and instructional methods proven to be effective in educating students with disabilities and learning style differences.

### **EDEX 301 Education of Students with Disabilities in Inclusive Secondary Settings**

2c-01-2sh

**Prerequisite:** For Secondary Education Majors and others who will be certified to teach content from K-12 Recommendation: It is strongly recommended that students take this course in the same semester of the designated methods course.

Examines the issues associated with education of students with diverse learning needs, particularly those with disabilities or who are at risk for school failure. There is an emphasis on special education, particularly the legal rights of students with exceptionalities and their parents, and the responsibilities of educators in addressing those rights. Examines the differential impact of student characteristics on secondary-level school performance and instructional methods proven to be effective in educating students with disabilities and learning style differences.

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### **EDEX 321 Methods of Teaching Language Arts to Persons with Disabilities**

3c-01-3sh

Prerequisites: EDEX 111, EDEX 222, and SPLP 254, GPA 2.5

A review of typical and atypical characteristics of the handicapped in relationship to the language arts. Deals with preparation and execution of units of instruction in language arts for mentally and/or physically handicapped persons. Diagnostic and prescriptive approaches are included; integration of language arts with a highlight on reading is stressed.

### **EDEX 340 Introduction to Behavior Management in Special Education**

3c-01-3sh

Prerequisites: EDEX 111, EDEX 112, EDSP 202, GPA 2.5

An overview of systematic behavioral change techniques for use with students in a variety of special education settings including integrated, resource, self-contained, special school, and residential. Emphasizes a case analysis approach to creating and evaluating behavioral changes for students with mild to severe disabilities.

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### **EDEX 415 Preschool Education for Children with Disabilities**

3c-01-3sh

**Prerequisite:** Departmental permission, GPA 2.5

Provides information on assessment, intervention strategies, curriculum, and prescriptive planning for preschool children with disabilities. Serves as a course for departmental majors who are specifically interested in early childhood education, as an elective for other interested students in related fields, and as a priority course for Early Childhood Education majors.

#### EDEX 416 Education of Persons with Emotional or Behavioral Disorders

3c-01-3sh

**Prerequisite:** Junior status or above, GPA 2.5

Focuses on major theoretical positions regarding etiology of emotional and behavioral disorders, definition and identification of the population, and educational approaches. Reviews research in the field, including current issues, trends, practices, and services.

### EDEX 417 Education of Persons with Mental Retardation or Developmental Disabilities

3c-01-3sh

**Prerequisite:** Junior status or above, GPA 2.5

Focuses on major theoretical positions regarding etiology of mental retardation and developmental disabilities, including autism. Definition, identification, and educational approaches are discussed. Reviews research in the field, including current issues, trends, practices, and services.

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### **EDEX 418 Education of Persons with Physical or Multiple Disabilities**

3c-01-3sh

Prerequisite: Junior status or above, GPA 2.5

Focuses on major theoretical positions regarding etiology of a wide and diverse range of physical/multiple disabilities, the definition and identification of the population, and educational approaches. Reviews research in the field, including current issues, trends, practices, and services.

### **EDEX 419 Education of Persons with Brain Injuries or Learning Disabilities**

3c-01-3sh

Prerequisite: Junior status or above, GPA 2.5

Focuses on major theoretical positions regarding etiology of neurological and learning disabilities, definition and identification of the population, and educational approaches. Reviews research in the field, including current issues, trends, practices, and services

### **EDEX 425 Methods and Curriculum (Mild-Moderate Disabilities)**

3c-0l-3sh

**Prerequisites:** EDEX 221, 222, 231, 321, 340, GPA 2.5

Provides in-depth examination of assessment methods, strategies, and curricula. Emphasizes assessment methods and strategies used in a variety of service models that serve elementary- and secondary-level students with learning disabilities, behavioral disorders, mild mental retardation, and high-function autism.

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### **EDEX 435 Methods and Curriculum (Severe-Profound Disabilities)**

3c-01-3sh

**Prerequisites:** EDEX 221, 222, 231, 321, 340, GPA 2.5

Emphasizes methods designed to facilitate the development of an integrated, functional, and community-based curriculum that will prepare students for participation in a wide variety of postschool environments.

### **EDEX 440 Ethical and Professional Behavior**

1c-0l-1sh

**Prerequisites:** Departmental permission, GPA 2.5

Emphasizes ethical and professional behavior for student teachers and professional employees. Possibilities for and methods of initiating and profiting from postbaccalaureate study are indicated. Student teachers are required to complete and present a curriculum book regarding each student-teaching experience.

### **EDEX 480 Seminar in Special Education**

var-1-3sh

Prerequisite: Departmental permission

Interested students may use this course for the pursuit of knowledge regarding specific concerns of the exceptional which are not ordinarily considered in such detail during regular classroom instruction. Students wishing to enroll are expected to submit a written proposal regarding their desire for study at the time permission for enrollment is sought. With permission, the course may be repeated for credit.

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### **EDEX 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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# **Educational and School Psychology**

# **Department of Educational and School Psychology College of Education**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

EDSP 202 EDSP 281 EDSP 373 EDSP 376 EDSP 377 EDSP 378 EDSP 481 EDSP 482 EDSP 499

### **EDSP 202 Educational Psychology**

3c-01-3sh

**Prerequisites:** <u>PSYC 101</u>, admission to sophomore standing in teacher certification or permission Designed to promote a better understanding of the principles of psychology governing human behavior, with particular emphasis on their relation to learner, learning process, and learning situation in an educational environment.

### **EDSP 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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### **EDSP 373 Psychology of Adolescent Education**

3c-01-3sh

Prerequisite: EDSP 202

A study of significant characteristics, behavior, and educational and social problems of adolescents.

### **EDSP 376 Behavior Problems**

3c-01-3sh

Prerequisite: EDSP 202

An examination of emotional and social aspects of behavior problems encountered in classroom situations and potential remedial techniques.

### **EDSP 377 Educational Tests and Measurements**

3c-01-3sh

**Prerequisites:** PSYC 101, admission to junior standing in teacher certification or permission Designed to acquaint students with major methods and techniques of evaluation used to assess and report growth, development, and academic achievement of individuals in an educational environment. Includes interpretation of standardized test information.

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**EDSP 378 Learning** 

3c-01-3sh

Prerequisite: EDSP 202

Explores learning theories and educational application in the classroom.

### **EDSP 481 Special Topics in Educational Psychology**

var-1-3sh

**Prerequisite:** Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are offered primarily for upper-level undergraduate students.

### **EDSP 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

### **EDSP 499 Independent Study**

var-1-3sh

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# Education

### **College of Education**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

EDUC 242 EDUC 281 EDUC 342 EDUC 389 EDUC 408 EDUC 415 EDUC 421 EDUC 423 EDUC 431 EDUC 441 EDUC 442 EDUC 451 EDUC 452 EDUC 453 EDUC 455 EDUC 456 EDUC 462 EDUC 481 EDUC 482 EDUC 495 EDUC 499

### **EDUC 242 Pre-student Teaching Clinical Experience I**

var-1sh

**Prerequisite:** Admission to teacher certification

Observation/participation in a basic education classroom beginning not later than the sophomore year. Transfer students (and other selected students at the recommendation of the teacher education coordinator of the program) may register later than sophomore year upon admission to teacher certification.

### **EDUC 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

### **EDUC 342 Pre-student Teaching Clinical Experience II**

var-1sh

**Prerequisites:** EDUC 242 and admission to junior standing

Students work toward the development of specific competencies that relate to individual major fields of teaching.

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### **EDUC 389 Field Experience Intervention**

3c-01-3sh

**Prerequisites:** Permission of department and instructor; Elementary Education or Early Childhood Education major Designed to assist the student in achieving the competencies within the major necessary for performance in student teaching. Teaching skills will be developed through one-on-one tutoring and a field experience. Each student will work in collaboration with the instructor to develop a personal learning contract that provides a means for demonstrating those competencies identified by the instructor and student. Students are expected to show commitment to self-development and teaching. Course is only offered on a pass/fail basis.

### **EDUC 408 Reading in the Content Areas**

3c-01-3sh

**Prerequisite:** ELED 222

Problems related to teaching students reading and study skills specifically needed in each of the subject areas at the

elementary level. Content teachers learn how to develop students' competence in these skills as part of their regular classroom instruction.

### **EDUC 415 Computers in the School Curriculum**

3c-01-3sh

Prerequisite: <u>BEDU 101/COSC 101/IFMG 101</u> or permission of the instructor

Students will use a variety of computer software including word processing, record management programs, and simulation programs. Emphasis will be on the application of computer programs within the K-12 school curriculum.

### **EDUC 421 Student Teaching**

var-6sh

**Prerequisite:** Admission to Student Teaching

An experience in teaching at the elementary level; coordination and visitation by a university faculty member with daily supervision by a cooperating classroom teacher.

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### **EDUC 423 Professional Practicum, Including School Law**

var-3sh

A series of conferences and related activities to prepare students for actual teaching experiences. Parallels student teaching experience in junior and senior years. (Elementary Education majors only)

### **EDUC 431 Student Teaching in Family and Consumer Sciences**

var-6sh

**Prerequisite:** Admission to Student Teaching

An experience in teaching family and consumer sciences at the secondary level.

### **EDUC 441 Student Teaching**

var-6-12sh

**Prerequisite:** Admission to Student Teaching

An experience in teaching at the elementary or secondary level; coordination and visitation by a university faculty member with daily supervision by a cooperating classroom teacher.

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#### **EDUC 442 School Law**

1c-01-1sh

Required of all teacher certification students. Includes overview of legal principles that apply to special areas of education. Must be taken prior to student teaching.

### **EDUC 451 Teaching Science in the Secondary School**

2c-2l-3sh

**Prerequisite:** Admission to Student Teaching

Background to help science majors meet the problems of teaching science. Various inquiry approaches useful in meeting objectives of a contemporary science class are taught and exemplified.

### EDUC 452 Teaching of English and Communication in the Secondary School

3c-01-3sh

**Prerequisites:** ENGL 314, 323, and 380 and admission to Student Teaching

A prerequisite to student teaching in English. Introduces the student to current professional practices in the teaching of English and communications in high school.

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### EDUC 453 Teaching of Foreign Languages in the Elementary/Secondary Schools

3c-01-3sh

**Prerequisites:** Successful completion of 321-322 and 351-352 in the student's major language; passage of a language proficiency examination or permission of the instructor, and admission to Student Teaching

The student will study current theories of language acquisition and methods of language teaching for the elementary and secondary school. Through hands-on practice and peer teaching demonstrations, the student will develop techniques for teaching functional language, planning lessons, setting curricular objectives, testing language skills, and selecting/adapting materials for both elementary and secondary school classrooms. (Course taught fall semester only)

### **EDUC 455 Teaching of Social Science in Secondary Schools**

3c-01-3sh

**Prerequisite:** Admission to Student Teaching

A study of modern methods and techniques for teaching social science and of current curricula in social science.

### **EDUC 456 Teaching Math in the Secondary Schools**

3c-01-3sh

**Prerequisite:** Admission to Student Teaching

A study of modern methods and techniques for teaching mathematics and current curricula.

### **EDUC 462 Issues and Innovations in Education**

3c-01-3sh

A study of issues and innovations which influenced education will be included. Educational innovations and issues which deal with curriculum, school organization, and materials of instruction will be examined.

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### **EDUC 481 Special Topics**

3c-01-3sh

**Prerequisite:** By permission only

Provides an opportunity for students to investigate in-depth an area of education under professional supervision.

### **EDUC 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

### **EDUC 495 International Study Tour in Education**

var-3sh

A study of various peoples through their cultural settings and educational systems; on-site visitation to selected schools and other social agencies and institutions; seminars with school officials and directed readings.

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#### **EDUC 499 Multicultural/Multiethnic Education**

2c-01-2sh

**Prerequisite:** One methods course must be taken prior to, or concurrently with, EDUC 499

Provides students with an understanding and appreciation of cultural diversity in the United States. Students will gain

the ability to locate and develop curricular materials appropriate to this country's diversity.

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# **Foundations of Education**

### Department of Foundations of Education College of Education and Educational Technology

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

FDED 202 FDED 281 FDED 440 FDED 441 FDED 442 FDED 454 FDED 456 FDED 481 FDED 482

### FDED 202 American Education in Theory and Practice

3c-01-3sh

**Prerequisites:** Students must have sophomore status and be enrolled in a teacher certification program Provides an introduction to some of the major traditional and contemporary philosophic concepts which have played a role in the formation of educational policies and practices. Emphasis will be on the relationship between educational theory and practice in such areas as the role of the school in society, curricular content, teaching and learning methodology, educational goals, and professionalism.

### **FDED 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

### FDED 440 Orientation to Teaching in Urban Centers

3c-01-3sh

Provides students with an understanding of learners and their unique learning needs and conditions. Emphasis will be on understanding the origin of attitudes and values and how these affect the relationships which exist between students and teachers. Special attention to practical application of theoretical information to problems of urban education. Field trips and guest speakers will be emphasized.

### FDED 441 Field Experiences in Urban Centers

var-6sh

**Prerequisite:** FDED 440

Provides specialized experience for students desiring to teach in inner-city schools. Aspects to be emphasized include physical characteristics of community, background and aspirations of children and youth, and specialized teacher competencies, classroom management, planning, instructional materials, teaching strategies, and evaluations. Records of comprehensive experiences in urban areas will be considered in making field experience assignments. Schools selected for student experience will be located in Pittsburgh.

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### Prerequisites: FDED 440, 441

Evaluation of learning and behavior problems encountered during field experience in urban schools. Flexible approach stressed to encourage wide range of investigation and exploration of psychological and sociological problems as they affect education. Supervision and guidance for investigating specific problems provided by specialists from psychology, sociology, and education who will function as resource personnel giving direction. Enables students to combine experiences gained by teaching in urban schools with recent and pertinent theoretical information.

### **FDED 454 Public School Administration**

3c-01-3sh

The study of the development of public school administration; current organizational patterns for public education at the local, county, state, and national levels; and the impact of administration upon the total educational program.

### FDED 456 Issues and Trends in Education

3c-01-3sh

Critical analysis of issues and trends in education with emphasis on philosophical and social dimensions of topics covered. Attention to work of some major contemporary critics of education.

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### **FDED 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

### FDED 482 Independent Study

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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# The College of Humanities and Social Sciences

Brenda L. Carter, Dean Alphonse N. Novels, Associate Dean Yaw A. Asamoah, Dean's Associate

- The College of Humanities and Social Sciences
- College Majors
- Degrees Offered
- Junior-Year Review
- <u>Degree Requirements</u>
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- Foreign Study Program
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- Internship Programs
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- Pan-African Studies Minor
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  - Bachelor of Arts--Anthropology/Archaeology Track
  - Bachelor of Arts--Anthropology/Applied Anthropology Track
  - Bachelor of Science in Education--Social Sciences Education/Anthropology Concentration
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- Department of Criminology
  - Bachelor of Arts
  - Bachelor of Arts--Criminology/Pre-Law Track
  - Minor--Criminology
- Department of Economics
  - Bachelor of Arts
  - Bachelor of Arts--Economics/Pre-Law Track
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  - Bachelor of Science in Education--Social Science Education/Economics Track
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  - English Humanities
    - Bachelor of Arts--English
  - Education Program
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  - French
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  - Bachelor of Arts
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- K-12 French Education
  - Bachelor of Science in Education
- German
  - College Language Requirements
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  - German
    - Bachelor of Arts
  - German for International Trade
    - Bachelor of Arts
  - Secondary German Education
    - Bachelor of Science in Education
  - Minor in German
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  - Geography--Geographic Information Systems and Cartographer Track
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    - Bachelor of Arts
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  - Social Science Education/Geography Track
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  - Social Science Education/History Track
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  - Course Sequence
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  - Bachelor of Arts--Political Science/International Studies
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- Department of Sociology
  - Bachelor of Arts--Sociology/General Sociology Track
  - Bachelor of Arts--Sociology/Clinical Sociology Track
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# **College of Natural Sciences and Mathematics**

John S. Eck, Dean Aleksandra B. Kaniasty, Assistant Dean Jacqueline L. Gorman, Dean's Associate

- The College of Natural Sciences and Mathematics
- Degrees
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- Degree Requirements
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    - Duke Cooperative College Program in Forestry and Environmental Studies
    - Jefferson Medical College IUP Physician Shortage Area Program
    - Admission to Jefferson Medical College
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    - Pymatuning Laboratory of Ecology
    - IUP Department of Biology/University of Zimbabwe Department of Biological Sciences Exchange Program
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  - Degree Programs
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    - Minor
- Biochemistry Program
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    - Bachelor of Arts
    - Bachelor of Science
    - Bachelor of Science in Education
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- Department of Computer Science
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    - Minor
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    - Minor
  - Earth and Space Science
    - Bachelor of Science in Education
  - General Science Education
    - Bachelor of Science in Education
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- Department of Physics
  - Cooperative Pre-Engineering (Chemical, Civil, Electrical, Materials, Mechanical) Program with Drexel University
  - Physics
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# **The College of Fine Arts**

Michael J. Hood, Dean Douglas E. Bish, Associate Dean

- The College of Fine Arts
- Interdisciplinary Fine Arts Major
  - Bachelor of Arts
- Department of Art
  - Bachelor of Arts--Art/History Track
  - Bachelor of Arts--Art/Studio
  - Bachelor of Fine Arts--Studio
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- Department of Music
  - Bachelor of Arts--Music/History and Literature Track
  - Bachelor of Arts--Music/Music Performance Track
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  - Bachelor of Fine Arts--Music Performance
  - Bachelor of Science in Education--Music Education
- Department of Theater
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# The Eberly College of Business and Information Technology

Robert C. Camp, Dean Manmohan D. Chaubey, Associate Dean

- Eberly College of Business
  - Degrees offered
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- Eberly COB Academic Policies
- Office of Academic Services
- School of International Management
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  - Bachelor of Science in Human Resources Management
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- Department of Management Information Systems and Decision Sciences
  - Management Information Systems
    - Bachelor of Science
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- Department of Marketing
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  - Business Techology Support
    - Bachelor of Science
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# **Elementary Education**

**Professional Studies in Education College of Education and Educational Technology** 

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

ELED 211 ELED 213 ELED 215 ELED 221 ELED 222 ELED 257 ELED 281 ELED 312 ELED 313 ELED 314 ELED 322 ELED 351 ELED 357 ELED 411 ELED 422 ELED 425 ELED 481 ELED 482

**Note:** Courses in Elementary Education are restricted to majors with a 2.5 average, except by departmental permission.

### **ELED 211 Music for the Elementary Grades**

2c-01-2sh

Geared for elementary education students. Includes basic ideas for understanding, development, and confidence for future classroom teachers and their pupils in areas of music education.

### **ELED 213 Art for the Elementary Grades**

2c-01-2sh

The creative use of art materials and an understanding of development of capacities of children through art.

### **ELED 215 Child Development**

3c-01-3sh

A survey of human development, from conception to adolescence, in terms of basic scientific data. Development, growth, and behavior are studied and their implications for home, school, and community are considered.

#### **ELED 221 Children's Literature**

3c-01-3sh

Acquisition of a wide acquaintance with children's literature, old and new. Poetry selections, annotated stories, and bibliographies will be assembled. Ways and means to develop, stimulate, and guide children's reading of literature presented. Principles and techniques of successful storytelling are studied and practiced.

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### **ELED 222 Reading for the Elementary School**

3c-01-3sh

A systematic coverage of the teaching of reading, including methods, techniques, and materials.

### ELED 257 Pedagogy I

3c-01-3sh

Competencies specific to the science of teaching will be introduced. Students will become familiar with the fundamentals of teaching at the elementary level. Areas that will be explored include models of teaching, including

lesson and unit planning, and creating a classroom environment that is conducive to learning. (Offered as EL356 prior to 1997-98)

### **ELED 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

### **ELED 312 Teaching of Elementary Science**

2c-01-2sh

Emphasis placed upon science as it relates to child and curriculum, planning for teaching science, and recent innovations in science teaching. Course offered on the junior block only.

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### **ELED 313 Teaching Mathematics in the Elementary School**

3c-0l-3sh

Prerequisites: MATH 151, 152, ELED 257

Recent developments in curriculum and methods of instruction of contemporary elementary school mathematics programs. Students will become acquainted with books, materials, and other resources helpful to prospective teachers. Includes observations of master teachers.

### **ELED 314 Teaching of Health and Physical Education**

2c-01-2sh

Games, stunts, rhythms, relays, tumbling, dances, and skills suitable for the elementary school child. Teaching of health in elementary school is emphasized, including methods, materials, and lesson planning.

### **ELED 322 Teaching of Reading II**

3c-01-3sh

The second course of a two-course sequence. Systematic coverage of teaching of reading, including methods, materials, and lesson planning.

### **ELED 351 Creative Activities in the Elementary School**

3c-01-3sh

Provides students with a wide range of creative experiences in fields of art, crafts, music, rhythmics, dramatics, and games in elementary school. Stress is placed upon need to help children in developing their capacities for creative expression in these areas.

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### ELED 357 Pedagogy II

3c-01-3sh

**Prerequisite:** Junior status

Principles based on classroom experience. Instruction will include classroom management skills, integration of computers in the elementary curriculum, contemporary issues in education, the role of research in elementary classroom teaching, and teacher professionalism during and after field experiences. (Course is writing intensive.)

### **ELED 411 Teaching of Social Studies**

3c-01-3sh

An overview of social studies in elementary school. Includes study of objectives, trends, areas of content, patterns and principles of organization, and techniques of teaching. Variety of learning experiences and materials used and evaluated.

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#### **ELED 422 Diagnostic and Remedial Reading**

3c-01-3sh

Prerequisite: **ELED 222** 

Causes of reading disability; methods of diagnosis; procedures and materials for remedial work, group and individual.

#### **ELED 425 Language Arts Across the Curriculum**

3c-01-3sh

**Prerequisite:** ELED 222

Places emphasis on the view that the art of communication is an interrelated process and the task of classroom teachers is not only integrating the language arts among themselves but also integrating them throughout the entire curriculum. Techniques for teaching oral and written communication, spelling, handwriting, vocabulary development, listening, and linguistics will be presented. Special emphasis given to recent trends and research. Course is offered as a writing-intensive course.

#### **ELED 481 Special Topics**

var-3sh

**Prerequisite:** Approval of instructor and department

A course/seminar on topics in education appropriate for the Elementary Education setting.

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#### **ELED 482 Independent Study**

var-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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# **Early Childhood Education**

# **Professional Studies in Education College of Education and Educational Technology**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

#### ECED 200 ECED 220 ECED 281 ECED 310 ECED 311 ECED 312 ECED 315 ECED 451 ECED 481 ECED 482

**Note:** Courses in Early Childhood Education are restricted to majors with a 2.5 average, except by department permission.

#### **ECED 200 Introduction to Early Childhood Education**

3c-01-3sh

An introductory course for prospective teachers of young children. Provides students with the opportunity to gain knowledge of historical, sociological, and political aspects of early childhood education. Emphasis will be on systematically observing, recording, and evaluating children's behavior in classrooms.

#### ECED 220 Language Development and Children's Literature

3c-01-3sh

Includes the study of children's language acquisition and children's literature within the context of a developmentally appropriate language arts curriculum, preschool through the primary grades. Strategies for developing children's linguistic competence and integrating literature throughout the early childhood program will be emphasized. Observations, interviews, and teaching experiences are an integral part of the course. (Offered as a writing-intensive course.)

#### **ECED 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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#### **ECED 310 Integrated Curriculum I**

3c-01-3sh

Examines the sequence of cognitive development in children and the implications for instructional programs. Stages of cognitive understanding will be applied to the basic components of numerical concepts and science concepts. Classroom management strategies that can be utilized in varied environments will be stressed.

#### **ECED 311 Integrated Curriculum II**

3c-01-3sh

Enables students to realize the importance and relevance of content area subjects as related to the early childhood

years. Planning for teaching with specific emphasis on methods and materials for social and environmental living is introduced. The integration of music and art is emphasized. Values systems and self-esteem are integral to social living.

#### **ECED 312 Aesthetic Experiences for Young Children**

3c-01-3sh

An interdisciplinary approach to different forms of creative expression in young children. Art, music, and movement will be analyzed as aesthetic elements in a comprehensive early childhood curriculum. Development of creative potential in both teachers and children will be promoted as a means of enhancing the artist's experiences. Students will expand their use of the arts to enhance the self-esteem and self-worth of the children.

#### Back to Top

#### **ECED 315 Development and Learning Through Play**

3c-01-3sh

Provides early childhood educators with the knowledge and skills necessary to promote and guide children's play behavior as the child's basic learning mechanism. Emphasis will be on definitions, theories, and stages of play within the context of social, emotional, physical, and intellectual growth for children aged 0-8 years. Students will observe children at play, design specific learning activities that utilize a play/games format, and direct educational experiences during a supervised field component.

#### **ECED 451 Teaching Primary Reading**

3c-01-3sh

A methods course designed to assist students in developing the reading abilities of young children. Deals with instructional issues related to teaching reading and introduces students to varying reading and pre-reading processes which are effective with young children. Also emphasizes diagnostic and assessment strategies for teaching reading.

#### **ECED 481 Special Topics**

var-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office A course/seminar on topics in education appropriate for the Early Childhood Education setting

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#### **ECED 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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# **Education of Persons with Hearing Loss**

Department of Special Education and Clinical Services College of Education and Educational Technology

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

EDHL 114 EDHL 115 EDHL 244 EDHL 281 EDHL 307 EDHL 308 EDHL 329 EDHL 330 EDHL 331 EDHL 351 EDHL 360 EDHL 365 EDHL 481 EDHL 482

#### **EDHL 114 Introduction to Persons with Hearing Loss**

3c-01-3sh

**Prerequisites:** Advisor permission, EDHL majors only

Deals with the different approaches used in teaching the hearing impaired—manual language, oral language, and total communication. The historical background of each approach is presented with its strengths and weaknesses. Criteria for the use of each approach established in consideration of degree of loss exhibited by the pupil, the age of onset, and the social and psychological implications.

#### **EDHL 115 Introduction to Sign Language**

1c-01-1sh

Development of manual dexterity and fluency using fingerspelling. Acquisition of basic sign language vocabulary. Practice in acquiring general information from a signed message and conversing informally on commonly used topics.

#### **EDHL 244 Intermediate Sign Language**

1c-01-1sh

Prerequisite: **EDHL** 115

Emphasis will be on comprehension of signed information and on developing fluency in conveying a message in both signed English and American Sign Language. Modification of signs and individualization of techniques for instruction/communication with learning-impaired or multihandicapped deaf learners.

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#### **EDHL 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

#### **EDHL 307 Speech for Persons with Hearing Loss**

3c-01-3sh

Prerequisites: EDHL 114, SPLP 242, 2.5 GPA

Techniques for developing, diagnosing, analyzing, and correcting the speech and voice problems of hearing-impaired individuals. Lecture, demonstration, and special projects.

#### **EDHL 308 Language for Persons with Hearing Loss**

3c-01-3sh

Prerequisites: EDHL 114, SPLP 334, 2.5 GPA

Development and remediation of language of the hearing impaired. Language sampling and diagnostics, sentence patterning, and analytic vs. natural teaching methods. Structuring a communicative environment.

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#### **EDHL 329 Hearing Practicum I**

var-1sh

Prerequisites: EDHL 114, 115, 2.5 GPA

Provides the student with actual contact with individuals with hearing loss. Practica will be set up in appropriate school programs and/or clinics for the hearing impaired, in hearing itinerant programs, or in clinical settings where hearing-impaired individuals are receiving therapy or are being tested. Techniques of observing and evaluating behavior are presented initially to prepare the student to profit maximally from the observation experiences. Written reports of the practica are submitted and discussed, and each student is encouraged to gain experience in as many different settings as available.

#### **EDHL 330 Hearing Practicum II**

var-1sh

**Prerequisites:** EDHL 329, 2.5 QPA

Provides students with actual contact with individuals with hearing loss. Practica will be set up in appropriate school programs and/or clinics for the hearing impaired, in hearing itinerant programs, or in clinical settings where hearing-impaired individuals are receiving therapy or are being tested. Techniques of observing and evaluating behavior are presented initially to prepare the student to profit maximally from the observation experiences. Written reports of the practica are submitted and discussed, and each student is encouraged to gain experience in as many different settings as available. This is a continuation of EDHL 329: Hearing Practicum I and includes support and supervision of students in EDHL 329.

#### **EDHL 331 Advanced Sign Language**

1c-0l-1sh

Prerequisites: EDHL 115, 244, 2.5 GPA

Studies the evolution of signs; dialectical sign systems. Analysis and comparison of the linguistic similarities/differences of various sign languages. Direct translation of written or spoken information on specific topics using American Sign Language or Signed English. Practice using conversation on both a social and academic level.

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#### **EDHL 351 Teaching Reading to Persons with Hearing Loss**

3c-01-3sh

Prerequisite: EDHL 308, 2.5 GPA

Presents basic concepts of developmental reading instruction and systematic coverage of the methods of teaching reading to students with hearing loss from readiness stages through upper school.

#### EDHL 360 General Methodology for Education of Persons with Hearing Loss

3c-01-3sh

**Prerequisites:** EDHL 114, 307, 308, 2.5 GPA

Provides a systematic coverage of the basic procedures for teaching curriculum subjects. Included are adaptive methods of instruction for teaching mathematics; science as it relates to the child and the curriculum; content, objectives, and resource materials for social studies; creative experiences in the field of language arts, rhythmics, and physical education and health.

#### **EDHL 365 Parent-Preschool Programs for Persons with Hearing Loss**

3c-01-3sh

#### Prerequisites: EDHL 307, EDHL 308, EDHL 114, EDEX 112, SPLP 334, 2.5 GPA

Developing home/clinic programs for parents and hearing-impaired infants (0-3 years). Teaching speech, language, speechreading, use of residual hearing, and developing readiness skills at preschool level.

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#### **EDHL 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

#### **EDHL 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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### Rehabilitation

#### Department of Special Education and Clinical Services College of Education and Educational Technology

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

RHAB 200 RHAB 211 RHAB 220 RHAB 281 RHAB 312 RHAB 321 RHAB 322 RHAB 360 RHAB 410 RHAB 412 RHAB 422 RHAB 460 RHAB 481 RHAB 482 RHAB 484 RHAB 488 RHAB 493

#### **RHAB 200 Introduction to Rehabilitation**

3c-01-3sh

A foundation for subsequent courses in the rehabilitation sequence. It is also available as a prerequisite or basic course for students interested in the rehabilitation of individuals in our society. Content includes the philosophy, history, major concepts, and current problems and issues.

#### **RHAB 211 Medical Aspects of Rehabilitation**

3c-01-3sh

Provides an overview of the etiology and pathology of a range of medical disorders which often require rehabilitative services. Emphasis is placed upon the psychosocial and functional effects of these disorders, vocational implications, and rehabilitative needs.

#### RHAB 220 Neurological Basis of Disability

3c-01-3sh

Prerequisites: EDEX 111, RHAB 200, BIOL 155 or HPED 221

A study of the brain and spinal cord with emphasis on cortical and subcortical mechanisms instrumental in normal motion, coordination, and bodily sensation, exclusive of vision and hearing. Discussion and demonstration of conditions of cerebral palsy, poliomyelitis, traumatic paraplegics, cerebrovascular accident, Parkinson's disease, multiple sclerosis, and rehabilitative procedures.

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#### **RHAB 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

#### RHAB 312 Psychological Basis of Disability

3c-01-3sh

A study of emotional and social responses which govern behavior and relationships of handicapped individuals and rehabilitation workers alike, with emphasis on the role of disability in formation of the concept of human worth.

#### **RHAB 321 Principles and Methods of Rehabilitation**

3c-01-3sh

Prerequisites: RHAB 220, RHAB 312, and permission of instructor

Delineates the roles of members of professional disciplines of medicine, psychology, prosthetics, orthodontics, audiology, speech pathology, physical and occupational therapy in restoration of the handicapped; use of diagnostic information; significance and interpretation of medical examination; role of rehabilitation counselor in the agency.

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#### **RHAB 322 Rehabilitation Case Study and Interpretation**

3c-01-3sh

**Prerequisites:** RHAB 220, RHAB 312, or permission of instructor

Purpose and techniques of case history taking; meaning and evaluation of diagnostic information; psychological evaluation in terms of mental ability, personality, attitudes, and dexterity skills; role of disabled individual's family in planning of services; referrals and report writing.

#### RHAB 360 Rehabilitation Counseling: Strategies

3c-01-3sh

Prerequisites: Permission, Rehabilitation majors only

Designed to help students develop competencies in using various counseling techniques with handicapped persons. Various theories of counseling will be explored relative to the rehabilitation setting. It will provide basic counseling skills to upperclass Rehabilitation majors prior to field training.

#### RHAB 410 Vocational Assessment in Rehabilitation Counseling

3c-01-3sh

**Prerequisites:** EDEX 111, RHAB 220, or faculty permission

Provides students with an overview of vocational assessment techniques and instruments for use with rehabilitation clients who are blind, deaf, mentally retarded, or severely physically handicapped. Includes discussion of rehabilitation evaluation.

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#### **RHAB 412 Occupational Aspects of Rehabilitation**

3c-01-3sh

**Prerequisites:** RHAB 220 or permission of instructor

The realism of the world of work and relationship of gainful employment to human autonomy and decision making. Types of jobs, levels of required skills, potential capabilities of the disabled relative to specific job responsibilities, methods of assessing potential job success, and sheltered workshops.

#### **RHAB 422 Current Topics in Rehabilitation**

3c-01-3sh

Taken concurrently with RHAB 488 and RHAB 493

A discussion of current topics of interest in the field, such as state and federal legislation, new prosthetic advances, proposals of the National Rehabilitation Association, or recent techniques in working with specific disabilities.

#### RHAB 460 Advanced Rehabilitation Counseling

3c-01-3sh

Prerequisite: RHAB 360

Selected counseling techniques studied and practiced under supervision. Application will be utilized in roles that will approximate the kind of clients encountered in field training.

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#### **RHAB 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

#### **RHAB 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

#### **RHAB 484 Directed Rehabilitation Activities**

var-3sh

Prerequisites: Permission, Rehabilitation majors only

A pre-field training experience working with handicapped clients in local facilities. Concrete experience will help the students integrate classroom instruction with field experiences.

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#### RHAB 488 Field Training in Rehabilitation I

var-6sh

**Prerequisites:** All major courses in program

Emphasizes development of the student rehabilitation coordinator by working with disabled clients in a public or private agency. Writing and analysis of case reports, counseling of clients, understanding of agency responsibilities and limitations, referral, follow-up, and final evaluation of the client's ability to function with various degrees of autonomy. Taken concurrently with RHAB 493 and RHAB 422.

#### RHAB 493 Field Training in Rehabilitation II

var-6sh

**Prerequisite:** All major courses in program

Provides a second field experience. Taken concurrently with RHAB 488 and RHAB 422.

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# Speech Pathology and Audiology (formerly Speech and Hearing)

Department of Special Education and Clinical Services College of Education and Educational Technology

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

<u>SPLP 111 SPLP 122 SPLP 222 SPLP 242 SPLP 251 SPLP 254 SPLP 281 SPLP 311 SPLP 334 SPLP 342 SPLP 406 SPLP 408 SPLP 412 SPLP 420 SPLP 481 SPLP 482</u>

#### **SPLP 111 Introduction to Communication Disorders**

3c-01-3sh

An introduction to study of physiological, acoustical, and scientific processes involved in production and reception of speech. The genetic development of speech sounds and factors that hinder or facilitate speech and language acquisition.

#### **SPLP 122 Clinical Phonology**

3c-01-3sh

A detailed study of the classification of American-English phonemes using the physical and acoustical perspectives. Development of proficiency in use of International Phonetic Alphabet for allophonic transcriptions of normal and disordered speech.

#### **SPLP 222 Introduction to Audiology**

3c-01-3sh

The study of auditory function, anatomy of auditory mechanism, psychophysics of sound, types and causes of hearing loss, measurement of hearing, and educational considerations for hearing-handicapped child.

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#### SPLP 242 Speech Science I

3c-01-3sh

The study of the communication process with emphasis on physical characteristics of sound production, transmission and perception of the sound, and the evolvement and use of symbols for meaningful communication. The scientific principles of normal oral communication are stressed, and language learning is recognized as a basis for oral communication.

#### SPLP 251 Anatomy and Physiology of the Speech and Hearing Mechanism

3c-01-3sh

Consideration of genetic development, structure, and function of the organs of speech and hearing. Anatomical systems involved in respiration, phonation, articulation, and hearing and relationships between systems in production and reception of speech.

#### SPLP 254 Classroom Management of Language Disorders

3c-01-3sh

A study of aspects of speech, language, and hearing problems pertaining to classroom situation. Types of speech and hearing disorders, conducting speech and language improvement lessons, classroom aids for teaching the child with language, speech, and hearing impairment, and school and community resources for these children. (Required for majors in Education of the Exceptional and suggested for majors in Elementary Education)

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#### **SPLP 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

#### **SPLP 311 Aural Rehabilitation**

3c-01-3sh

Prerequisite: <u>SPLP 222</u>, 2.5 QPA

Consideration of the effects of varied degrees of hearing loss sustained by individuals at different stages of development and study of total education and rehabilitative procedures for the hard-of-hearing child or adult.

#### **SPLP 334 Language Development**

3c-01-3sh

**Prerequisite:** 2.5 QPA

The study of the development of an interpersonal communication system; language as a system of symbols for communication; the structure of the English language, including phonology, syntax, and semantics with emphasis on the generative evolvement of sentences. Highlighting the neurological, social, and psychological bases of language development.

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#### SPLP 342 Speech Science II

3c-01-3sh

Prerequisite: <u>SPLP 242</u>, 2.5 QPA

Physiologic, acoustic, and perceptual characteristics of speech with special emphasis on speech monitoring and controls. Major lab instrumentation and research techniques in current use are described and demonstrated. The status of present knowledge is summarized and discussed.

#### SPLP 406 Articulation and Language Disorders

3c-01-3sh

**Prerequisites:** <u>SPLP 111</u>, <u>242</u>, <u>251</u>, <u>334</u>, 2.5 QPA

An exploration of the processes related to developmental articulation and language disorders from birth through adolescence. Instruction in the principles underlying modification of these disorders. Preparation of management programs and observation in the Speech and Hearing Clinic required.

#### **SPLP 408 Stuttering and Voice Disorders**

3c-01-3sh

**Prerequisites:** <u>SPLP 111</u>, <u>242</u>, <u>251</u>, <u>334</u>, 2.5 QPA

An introduction to the developmental, psychogenic, and organic bases for stuttering and voice disorders. Instruction in principles underlying treatment of these disorders with emphasis on anatomical deviations and laryngeal dysfunction. Preparation of management plans and observation in Speech and Hearing Clinic required.

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#### SPLP 412 Organization and Administration of Speech and Hearing Program

3c-01-3sh

**Prerequisite:** SPLP 111, 2.5 QPA (meets requirement for Professional Education course)

Establishment and maintenance of speech and hearing programs within various administrative organizations, particularly in the public schools. The techniques of client identification, scheduling, recordkeeping, appropriate referral, material and equipment selection, teacher and parental counseling, and the development of coordinated professional and interdisciplinary procedures.

#### **SPLP 420 Speech Clinic**

var-1-3sh

**Prerequisites:** EDUC 242, EDUC 342, QPA of 3.0+, all major courses, program director's permission An experience in working with individuals or groups of persons who exhibit speech or hearing problems. Lesson planning, writing of reports, and case histories of a detailed nature.

#### **SPLP 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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#### SPLP 482 Independent Study

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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### Fine Arts

#### **College of Fine Arts**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

#### FIAR 281 FIAR 481 FIAR 482 FIAR 493

#### FIAR 281 Special Topics

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

#### FIAR 481 Special Topics

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

#### FIAR 482 Independent Study

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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#### FIAR 493 Internship

var-3-12sh

Covers the areas of the visual and performing arts.

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### **Art Education**

# **Department of Art College of Fine Arts**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

#### ARED 281 ARED 315 ARED 317 ARED 318 ARED 481 ARED 482

#### **ARED 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

#### **ARED 315 Survey of Art Education**

3c-01-3sh

A seminar to introduce the art education major to the principles and practices of teaching visual arts K through 12. Field experiences, pre-student teaching activities, introduction to literature, and history and philosophies of art education emphasized. (Prerequisite to student teaching) Fall only.

#### ARED 317 Art Education Methodology at the Elementary Level

1c-31-3sh

Examines children's artistic development, art programs, planning, motivation, and evaluation. Weekly teaching experience is an integral part of the course. (Prerequisite to student teaching) Fall only.

#### Back to Top

#### ARED 318 Art Education Methodology at the Secondary Level

1c-31-3sh

The relationship of art education to the total secondary curriculum is studied to determine goals of junior-senior high school art. The adolescent creative products are analyzed to help the prospective art teacher to identify with problems of students. (Prerequisite to student teaching) Spring only.

#### **ARED 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

#### **ARED 482 Independent Study**

#### var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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### Music

#### **Department of Music** College of Fine Arts

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

MUSC 110 MUSC 111 MUSC 112 MUSC 115 MUSC 116 MUSC 120 MUSC 121 MUSC 122 MUSC 123 MUSC 125 MUSC 126 MUSC 127 MUSC 129 MUSC 130 MUSC 131 MUSC 133 MUSC 134 MUSC 135 MUSC 136 MUSC 137 MUSC 151 MUSC 152 MUSC 153 MUSC 154 MUSC 155 MUSC 157 MUSC 159 MUSC 161 MUSC 163 MUSC 211 MUSC 212 MUSC 215 MUSC 216 MUSC 217 MUSC 218 MUSC 224 MUSC 225 MUSC 240 MUSC 281 MUSC 304 MUSC 306 MUSC 309 MUSC 311 MUSC 312 MUSC 313 MUSC 331 MUSC 333 MUSC 335 MUSC 337 MUSC 340 MUSC 351 MUSC 353 MUSC 354 MUSC 405 MUSC 406 MUSC 408 MUSC 411 MUSC 412 MUSC 413 MUSC 414 MUSC 475 MUSC 481 MUSC 482 MUSC 493

#### **MUSC 110 Fundamentals of Theory**

3c-01-3sh

Rudiments of musical materials; harmonic, melodic, rhythmic, and basic formal procedures of the common practice period including pitch reading, interval construction, scales, and modes.

#### **MUSC 111 Theory Skills I**

0c-31-2sh

Develops aural skills through dictation and interpretation of written music by sight-singing. Taken in conjunction with Theory I.

#### **MUSC 112 Theory Skills II**

0c-31-2sh

**Prerequisite:** MUSC 111

Continuing development of aural skills and introduction of keyboard skills. Taken in conjunction with Theory II.

#### **MUSC 115 Theory I**

3c-01-3sh

The study of the harmonic, melodic, and formal devices of the common practice period, from simple diatonic chords through secondary dominants.

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#### **MUSC 116 Theory II**

3c-01-3sh

**Prerequisite:** MUSC 115

The study of the harmonic, melodic, and formal devices of the common practice period, from simple diatonic chords through secondary dominants. Theory II introduces basic music forms.

#### **MUSC 120 Brass Ensemble**

0c-21-0/1sh

MUSC 121 Chamber Singers 0c-3l-0/1sh	
MUSC 122 University Chorale 0c-31-0/1sh	
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MUSC 123 Symphony Band 0c-31-0/1sh	
MUSC 125 Marching Band 0c-6l-0/1sh	
MUSC 126 Music Theater 0c-6l-0/1sh	
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MUSC 127 Percussion Ensemble 0c-41-0/1sh	
MUSC 129 University Symphony Orchestra 0c-51-0/1sh	
MUSC 130 String Ensemble 0c-21-0/1sh	
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MUSC 131 University Wind Ensemble 0c-31-0/1sh	
MUSC 133 Woodwind Ensemble 0c-21-0/1sh	
MUSC 134 University Chorus 0c-31-0/1sh	
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MUSC 135 Jazz Ensemble 0c-3l-0/1sh	

MUSC 136 Advanced Jazz Ensemble 0c-3l-0/1sh

#### **MUSC 137 Piano Accompanying**

var-1-1 or 0sh

Piano accompanying may be scheduled by qualified pianists from the Department of Music in partial fulfillment of ensemble requirements. May be repeated for credit. Pianists registered for this course will provide accompaniments for Department of Music students in solo vocal or instrumental performances in area and departmental recitals and/or in voice and instrumental lessons. Registration must be approved by a designated Department of Music faculty member from the piano area.

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#### **MUSC 151 Class Voice I**

1c-11-1sh

Conceived for non-Voice majors. Development of correct vocal production techniques through individual and group performance in class. Use of the voice as a tool for theory skills and for eventual use in the music classroom.

#### **MUSC 152 Class Voice II**

1c-11-1sh

A continuation of Class Voice I. Resumes development of correct vocal production techniques through performance.

#### MUSC 153 Class Piano I

1c-11-1sh

Designed for students with no significant background in piano who need to develop functional keyboard skills. Emphasis placed on harmonizing melodies and playing simple accompaniments.

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#### **MUSC 154 Class Piano II**

1c-11-1sh

Continuation of Class Piano I.

#### **MUSC 155 Class Strings I**

1c-1l-1sh

For Music Education majors who will develop rudimentary playing techniques sufficient to initiate instruction for beginning students. Emphasis placed on correct playing positions and tone production for violin, viola, cello, and double bass.

#### **MUSC 157 Class Percussion I**

1c-11-1sh

A practical introduction to the various instruments of the percussion family. Students will demonstrate correct playing techniques and develop a resource file containing information on percussion instruments and instructional materials as needed by the school music teacher.

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#### **MUSC 159 Class Brass I**

1c-11-1sh

For Music Education majors who will demonstrate rudimentary playing techniques and tone production skills to initiate beginning instruction. Students will develop playing on trumpet or French horn and trombone, euphonium, or tuba.

#### **MUSC 161 Class Woodwinds I**

1c-11-1sh

For Music Education majors who will acquire correct tone production and playing techniques sufficient to initiate beginning instruction. Students will demonstrate skills with flute, clarinet, saxophone, and oboe or bassoon.

#### **MUSC 163 Class Guitar I**

1c-1l-1sh

Designed for students with no significant background in guitar who wish to develop functional playing skills. Emphasis placed on using the guitar as an accompanying instrument.

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#### **MUSC 211 Theory Skills III**

0c-31-2sh

Prerequisites: MUSC 111, 112

Further development of aural and keyboard skills. Taken in conjunction with Theory III.

#### **MUSC 212 Theory Skills IV**

0c-31-2sh

**Prerequisites:** MUSC 111, 112, 211

Culmination of development in aural and keyboard skills. Taken in conjunction with Theory IV.

#### **MUSC 215 Theory III**

3c-01-3sh

Prerequisites: MUSC 115, 116

An extension of the techniques of the eighteenth and nineteenth centuries to include modulation, altered chords, more advanced musical forms, and contrapuntal procedures.

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#### **MUSC 216 Theory IV**

3c-01-3sh

**Prerequisites:** <u>MUSC 115</u>, <u>116</u>, <u>215</u>

An extension of the techniques of the eighteenth and nineteenth centuries to include modulation, altered chords, more advanced musical forms, and contrapuntal procedures. Theory IV concentrates largely on music and materials of the present century.

#### **MUSC 217 Keyboard Harmony I**

1c-11-1sh

Prerequisite: Nominal facility at keyboard

Designed to develop keyboard skills so the student may realize and produce in sound basic harmonic progressions.

#### **MUSC 218 Keyboard Harmony II**

1c-11-1sh

**Prerequisite:** MUSC 217

A continuation of Keyboard Harmony I, involving chromatic harmony and more complex progressions.

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#### **MUSC 224 Jazz Improvisation Techniques I**

3c-01-3sh

A study of the basic materials and practices for improvising or extemporaneous playing.

#### **MUSC 225 Jazz Improvisation Techniques II**

3c-01-3sh

A continuation of the basic materials and practices for improvising or extemporaneous playing. Makes use of more complicated and involved harmonic progressions utilizing extended choral harmonies.

#### **MUSC 240 Technology in the Music Classroom**

2c-11-2sh

Prerequisite: Sophomore standing, <u>BEDU/COSC/IFMG 101</u>

Introduces the student to the technology resources available for use in the music classroom and with instructional technologies appropriate to their application in K-12 settings. Students will be exposed to a variety of media and will have the opportunity to gain familiarity in their use. Emphasis will be placed on the use of the computer in the classroom, computer-based instruction, and Musical Instrument Digital Interface (MIDI).

#### **MUSC 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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#### **MUSC 304 Form and Analysis I**

2c-01-2sh

**Prerequisite:** MUSC 216

A thorough study of smaller forms of music.

#### MUSC 306 Counterpoint I

2c-01-2sh

Prerequisite: MUSC 216

After study and analysis of the style of sixteenth-century contrapuntal writing, student will do original writing using techniques and devices of period. As time permits, same approach will be made to explore style of seventeenth- and eighteenth-century composers.

#### **MUSC 309 Orchestration I**

2c-01-2sh

**Prerequisite:** MUSC 216

All instruments of orchestra are studied from the viewpoint of their contribution to the total sound of ensemble. Ranges and timbres are considered, as well as actual arranging of selected music.

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#### **MUSC 311 Fundamentals of Conducting**

3c-01-2sh

Emphasis placed on fundamental physical skills of conducting process; various beat patterns are mastered and elementary score reading and interpretation are considered.

#### **MUSC 312 Choral Conducting**

3c-01-2sh

**Prerequisite:** MUSC 311

Provides an opportunity for the student to apply basic conducting techniques to choral music. Each student conducts the class in standard choral works. Includes survey of suitable literature, organizational problems, voice testing, rehearsal techniques, program building, interpretation, and diction.

#### **MUSC 313 Instrumental Conducting**

3c-01-2sh

**Prerequisite:** MUSC 311

Provides the student with an opportunity to apply basic conducting skills to various instrumental ensembles. Includes survey of suitable literature, organizational problems, audition procedures, rehearsal techniques, program building, and interpretation.

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#### **MUSC 331 Elementary Methods**

3c-01-3sh

Includes analytical study of texts, recordings, equipment, instruments, and other materials suitable to musical development of elementary pupils; proper treatment of child voice; selection, use, and teaching of rote songs; rhythmic activities and development; music reading; part singing; planning and organization; guided observations; and evaluation techniques.

#### **MUSC 333 Secondary Methods**

3c-01-3sh

Includes General Music Class, choral organizations, changing voice, techniques of instruction, including team teaching and programmed learning, high school theory courses, high school music literature courses, scheduling, administrative problems, curriculum development, evaluation of materials and equipment, evaluative techniques, and guided observation. Extra laboratory sessions are required.

#### Back to Top

#### **MUSC 335 Music for the Exceptional Student**

2c-21-2sh

Develops music education skills, techniques, and materials for the emotionally, mentally, physically, or neurologically handicapped student and the gifted. Designed for students in music education, special education, and elementary education.

#### **MUSC 337 General Music in Middle Schools**

3c-01-3sh

**Prerequisite:** MUSC 331

Provides general practices and pedagogy related to recent standards for a comprehensive, sequential middle school general music curriculum. Specific focus on curriculum development, lesson planning, instructional strategies, adolescent behavioral characteristics, as well as diverse materials and resources.

#### **MUSC 340 Woodwind Instrument Repair**

0c-21-2sh

Prerequisites: MUSC 133, Teacher Certification

Designed for students preparing for teaching careers in instrumental music. Instruction will be conducted in a laboratory setting and will include development of the diagnostic and repair skills necessary to deal with the problems most frequently encountered in a public school classroom on the clarinet, flute, and saxophone.

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#### **MUSC 351 Italian Diction and Literature**

2c-01-2sh

For first-semester voice majors. Meets for two hours per week. Emphasis is on pronunciation for the stage and readings of Italian song texts. Italian madrigals, solo song literature, and operatic repertoire are also studied.

#### **MUSC 353 French Diction and Literature**

2c-01-2sh

For third- or fourth-semester voice majors. Meets for two hours per week. Emphasis is on pronunciation for the stage and the International Phonetic Alphabet. French solo song literature and operatic repertoire are also studied.

#### **MUSC 354 German Diction and Literature**

2c-01-2sh

For second-semester voice majors. Meets for two hours per week. Emphasis is on pronunciation for the stage. German solo song literature as well as Bach chorales are studied.

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#### **MUSC 405 Piano Pedagogy**

3c-01-3sh

**Prerequisites:** Junior standing in Piano and a Piano major or minor

A survey of current and significant past developments in teaching of piano, both privately and in small and large classes. The various piano methods are analyzed, compared, criticized, and adapted to each individual's use.

#### **MUSC 406 Voice Pedagogy**

3c-01-3sh

**Prerequisites:** A voice major or minor and permission of the instructor

A survey of current and past development in teaching of voice, both privately and in small and large classes. The various vocal methods are analyzed, compared, criticized, and adapted to each individual's use.

#### **MUSC 408 Marching Band Techniques**

2c-01-2sh

Considers building a band show; alignment of ranks and files; development of a standard pace of 5 to 5 and 8 to 5; selection of music; instrumentation; techniques of developing morale; and fundamentals of uniform design.

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#### **MUSC 411 Composition I**

2c-01-2sh

**Prerequisite:** MUSC 216

Instruction is individualized. Compositional devices studied through analysis of works by major composers. Students will write several original compositions utilizing smaller forms.

#### **MUSC 412 Composition II**

2c-01-2sh

Prerequisite: MUSC 411

Continuation of Composition I.

#### **MUSC 413 Composition III**

2c-01-2sh

Prerequisite: MUSC 412

Students will write several original compositions utilizing larger forms.

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#### **MUSC 414 Composition IV**

2c-01-2sh

**Prerequisite:** MUSC 413

A continuation of Composition III. Outstanding works will be programmed by university performing ensembles.

#### **MUSC 475 Music Lab**

var-0sh

All music majors must attend eight recitals per semester and all departmental recitals, as well as all recitals for their respective performance areas.

#### **MUSC 481 Special Topics**

3c-01-3sh

**Prerequisite:** As appropriate to course content

May provide an in-depth study of a narrowly defined area of the discipline. Subject matter will change with repeated offering of the course. May be repeated for credit.

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#### **MUSC 482 Independent Study**

var-1-6sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

#### **MU 493 Internship in Music**

var-1-6sh

Designed for music majors who wish to receive practical experience working with people in music or in areas related to music.

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# **Applied Music**

#### **Department of Music College of Fine Arts**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

Music majors and others who may qualify take private instruction in their respective major areas of performance in instrument or voice for up to eight semesters. Half-hour lessons are given each week (2 sh) for students enrolled in the B.S. and B.A. degree programs. A one-hour lesson (4 sh) is scheduled by students enrolled in the B.F.A. degree program only.

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APMU
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                  210,
                        260,
                              310,
                                    360,
                                          410,
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#### **APMU 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# Hotel, Restaurant, and Institutional Management

#### Department of Hotel, Restaurant, and Institutional Management College of Health and Human Services

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

<u>HRIM 101 HRIM 115 HRIM 245 HRIM 259 HRIM 260 HRIM 281 HRIM 299 HRIM 313 HRIM 350 HRIM 356 HRIM 358 HRIM 365 HRIM 401 HRIM 402 HRIM 406 HRIM 408 HRIM 411 HRIM 413 HRIM 420 HRIM 433 HRIM 481 HRIM 482 HRIM 493</u>

#### **HRIM 101 Introduction to Hospitality Management**

3c-01-3sh

A study of the development and current status of the hospitality industry. Major hotel, restaurant, and related area employers are profiled. Career opportunities are discussed. Guest speakers from various hospitality industry segments are featured.

#### **HRIM 115 Introduction to Tourism**

3c-01-3sh

Introduces the student to concepts pertaining to international and domestic tourism. Course examines the economic, social, and cultural aspects of tourism as well as how destinations are marketed.

#### HRIM 245 Diversity and Multicultural Management in the Hospitality Industry

3c-01-3sh

**Prerequisite:** Sophomore standing

Course will explore what happens when diverse people work together in the hospitality industry. It will also examine the effects of international migration and the changing roles of women and other minorities which lead to multicultural urban centers within the United States and other hospitality venues. Furthermore, it will also focus on the cultural factors affecting productivity in the culturally diverse hospitality environment.

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#### **HRIM 259 Hospitality Purchasing**

3c-01-3sh

**Prerequisite:** FDNT 150 or equivalent

Includes sources, standards, grades, methods of purchase, and storage of various foods, beverages, and fixtures. Emphasis will be on the development of purchasing policies and specifications.

#### **HRIM 260 Hotel Systems Management**

3c-01-3sh

Development and application of management skills as applied to the rooms division of a hotel. Specific emphasis will be placed on front office procedures, the relationship between the hotel's rooms division, food and beverage, and supports areas, and safety and security concerns. (Offered as HRIM 360 prior to 2000-2001)

#### **HRIM 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

#### **HRIM 299 Cooperative Education (First Experience)**

0sh

**Prerequisites:** Completion of 30sh, 2.0 GPA

A semester-long program designed to combine classroom theory with practical application through job-related experiences. The student is required to complete two alternating experiences; only one may be a summer experience.

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#### HRIM 313 Food Systems I

2c-var-4sh

Prerequisites: FDNT 150, HRIM 259, permission; professional chef's uniform required

A basic course in quantity food production with experience in planning, purchasing, preparing, and serving nutritionally adequate meals. Requirements of the National School Lunch program emphasized in satellite and on-premises food service. Requires some preparation and service outside regularly scheduled class time.

#### HRIM 350 Introduction to the Casino Industry

3c-01-3sh

Prerequisites: Sophomore standing or permission of the professor

Introduces the student to the multi-billion-dollar casino industry. Examines the gaming industry from a historical perspective and includes legal, social, and economic issues. Also reviews the various games played in casinos and the current trends, as well as the most popular casino destinations in the world. Special attention will be devoted to the growth of casinos on cruise ships, on Native American reservations, and on riverboats in the U.S. Includes a field trip to Atlantic City or another casino setting, which occurs on a weekend. This field trip serves as a catalyst to appreciate all of the theoretical concepts discussed in the lectures.

#### HRIM 356 Human Resources in the Hospitality Industry

3c-01-3sh

Prerequisites: PSYC 101, HRIM 313

Organization and administration of hospitality business, including human resource theories and policies, work simplification, training, communication, and safety.

#### HRIM 358 Food Service Equipment and Facilities Design

3c-01-3sh

**Prerequisite:** HRIM 313

Examines types and uses of food service production and service equipment with emphasis on incorporation into an effective facilities design. Field trips permit investigation of a variety of unit designs.

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#### **HRIM 365 Hotel Facilities Management**

3c-01-3sh

**Prerequisite:** HRIM 101

Analyzes principles of hotel design, construction, and physical plant management. Housekeeping and maintenance department operations are discussed.

#### **HRIM 401 Cost Management**

3c-01-3sh

Prerequisites: HRIM 356, 313

Food, beverage, and labor controls for hospitality or health care operations, including relationships between budgetary information and managerial decision making to meet financial needs.

#### **HRIM 402 Beverage Management**

3c-01-3sh

**Prerequisites:** Verifiable proof of 21 years of age or permission

Examines the principles, processes, and theories of beverage service. Analysis of methods of alcoholic beverage production and examination of categories of spirits, malt beverages, and wine, as well as legal concerns of service. Development and marketing of beverage operations are discussed. Includes voluntary tasting and evaluation of alcoholic beverage products. (Offered as HR 306 Food and Beverage Management prior to 2000-01)

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#### **HRIM 406 Catering and Banquet Management**

var-3sh

Prerequisites: HRIM 313, majors only; chef's uniform and wait-staff attire required

Profitable organization, preparation, and service of catered events in both on- and off-premises locations are the main emphases. Requires meeting times other than listed in order to meet course objectives.

#### **HRIM 408 Institutions Management**

3c-01-3sh

Prerequisites: HRIM 313, 356, ACCT 201, senior standing

A compendium of the concepts of managing human resources, capital, materials, equipment, and markets as related to various hospitality property systems. Focus on concept development and managerial decision making.

#### **HRIM 411 Seminar in Hospitality Management**

3c-01-3sh

Prerequisites: HRIM 360, 365

An analysis of the current trends and practices within hospitality industry as related by industry professionals. Includes researching topics and writing at least three research papers. Carries writing-intensive credit.

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#### **HRIM 413 Advanced Restaurant Operations**

1c-6l-4sh

**Prerequisites:** HRIM 313 and permission; professional chef uniform required

A food and beverage systems course with emphasis on restaurant front- and back-of-house operations management. Students research, plan, prepare, and present theme-oriented dinners showcasing selected domestic and international cuisine. Students function as both operations employees and managers within the department's food and beverage operation.

#### **HRIM 420 Hotel Sales**

3c-01-3sh

Prerequisites: HRIM 101 and 260

A practical approach to understanding the functions and activities of the sales department within a hotel property. A thorough review of the organizational structure of a typical hotel sales department and documentation used by the department will be made. Identification of and approaches to securing typical hotel market segments will be made.

#### **HRIM 433 Educational Study Tour**

var-2-6sh

Comprehensive program of directed activities permits firsthand experiences in the historical and cultural aspects of the hospitality industry worldwide. Visits to renowned operations will be included in the tour.

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#### **HRIM 481 Special Topics**

var-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

#### HRIM 482 Independent Study in Hospitality Management

var-1-6sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources. Must apply a semester in advance and have 60sh earned.

#### HRIM 493 Internship in Hospitality Management

var-6-12sh

**Prerequisites:** 57 earned credits, 2.0 GPA, and completion of an approved 440-hour Work Experience I

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**Note:** White uniforms including white shoes are required for all lab courses where food is prepared. Students must meet the professional dress requirements of the department.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

## **Fashion Merchandising**

#### Department of Human Development and Environmental Studies College of Health and Human Services

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

FSMR 110 FSMR 112 FSMR 212 FSMR 252 FSMR 281 FSMR 303 FSMR 314 FSMR 350 FSMR 357 FSMR 385 FSMR 433 FSMR 434 FSMR 450 FSMR 453 FSMR 456 FSMR 457 FSMR 480 FSMR 481 FSMR 482

#### FSMR 110 Introduction to Fashion

3c-01-3sh

A survey of aesthetic, cultural, sociopsychological, and economic factors related to the meaning and use of clothing for the individual and society. (Offered as CS216 prior to 1996-97)

#### FSMR 112 Fundamentals of Clothing Construction

1c-31-3sh

Principles and techniques involved in fundamental clothing construction and fitting are analyzed. Directed laboratory experiences provide an opportunity to solve individual problems in garment structure through the application of principles. (Offered as CS112 prior to 1996-97)

#### FSMR 212 Advanced Clothing Construction

1c-31-3sh

**Prerequisite:** FSMR 112 or placement (by exam)

Principles of advanced fitting and clothing construction are applied and analyzed. Offered even years, fall semester.

(Offered as CS212 prior to 1996-97)

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#### FSMR 252 Aesthetics of Fashion

1c-01-3sh

**Prerequisite:** Sophomore standing

The study of contemporary apparel design and the relationship of design elements and principles to personal characteristics and social/professional orientation. (Offered as CS252 prior to 1996-97)

#### **FSMR 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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#### FSMR 303 Visual Merchandising

1c-3l-3sh

**Prerequisite:** ART 120 or equivalent

Designing and arranging of display and selling areas in relationship to merchandising trends and consumer demands. Emphasis will be on promotion techniques and merchandise sales through effective use of space, design, and color.

(Offered as CS303 prior to 1996-97)

#### **FSMR 314 Textiles**

2c-21-3sh

Prerequisite: <u>CHEM 102</u>

Analyses of textile components of fiber, yarn, fabrication, finishes, and color with emphasis upon consumer acquisition, use, and satisfaction. (Offered as CS314 prior to 1996-97)

#### FSMR 350 Apparel Industry I

3c-01-3sh

**Prerequisites:** FSMR 110, completion of 57 semester hours

Introduces the student to the design, production, and distribution of apparel, including primary textile markets; women's, men's, and children's wear; accessories; fashion centers; retailers of fashion; apparel wholesale selling process; fashion store image; and future trends. (Offered as CS350 prior to 1996-97)

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#### FSMR 357 Global Issues in Textiles and Apparel

3c-01-3sh

**Prerequisite:** ECON 121

The study of the global textiles and apparel industry with emphasis on the U.S. textile complex and the U.S. market within an international context.

#### FSMR 385 Ready-to-Wear Analysis

1c-3l-3sh

Prerequisites: FSMR 112, 350

An examination and evaluation of the quality of ready-to-wear apparel through construction, style, fit, marketability, and price. (Offered as CS385 prior to 1996-97)

#### **FSMR 433 Study Tour**

var-1-6sh

**Prerequisite:** Upper-level standing

Opportunity is provided to visit business establishments and cultural centers concerned with household equipment, furnishings, textiles, clothing, and housing in America as well as abroad. Museums, factories, designers' showrooms, distribution centers, stores, cultural events, and seminars are included. Course may be repeated for a total of 6sh. (Cross-listed as <u>CNSV/INDS 433.</u>)

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#### FSMR 434 Quality Control in Textiles

2c-21-3sh

**Prerequisite:** FSMR 314

Physical properties explored through microscopic examination and use of textile testing equipment for fabric analysis. (Offered as CS434 prior to 1996-97)

#### FSMR 450 Apparel Industry II

3c-01-3sh

**Prerequisites:** FSMR 350 and Liberal Studies math requirements

Introduces the student to the merchandising and promotion of apparel, including organization, buying responsibilities, techniques, and resources: various retail institutions, resident buying offices, apparel dollar planning and control,

apparel merchandise assortment planning, apparel buying practices, application of apparel planning and buying, and apparel advertising and promotion. (Offered as CS450 prior to 1996-97)

#### FSMR 453 Flat Pattern Design

1c-31-3sh

Prerequisite: FSMR 112 or 212

Garment design achieved by use of flat pattern techniques. An understanding is developed of the interrelationship of garment design, figure analysis, fabric, fit, and construction processes. Offered even years, spring semester. (Offered as CS453 prior to 1996-97)

#### **FSMR 456 Historic Costume**

3c-01-3sh

Chronological study of historic costume from ancient times to the present day with emphasis on the effect of aesthetic, economic, geographic, political, religious, and social factors upon the design of clothing worn. (Offered as CS456 prior to 1996-97)

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#### **FSMR 457 Historic Textiles**

3c-01-3sh

**Prerequisite:** FSMR 314 or with permission

A study of the development of textiles in prehistoric, ancient, medieval, and modern history with special emphasis on Western European and American textiles.

#### FSMR 480 Seminar in Fashion Merchandising

3c-01-3sh

**Prerequisite:** Senior standing

Knowledge gained in major and additional requirement courses is applied to individual career goals. Students have the opportunity to pursue related areas not directly covered in previous coursework, with emphasis upon independent research, analytical thinking, and communication skills.

#### FSMR 481 Special Topics

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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#### FSMR 482 Independent Study

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Particular consumer considerations are independently investigated in the area of housing, home equipment, interior design, clothing, and textiles, or in the management of resources. Course may be repeated for a total of 3sh. Students meet with a faculty member at least 5 hours per semester hour.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# **Interior Design**

#### Department of Human Development and Environmental Studies College of Health and Human Services

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

INDS 105 INDS 118 INDS 205 INDS 213 INDS 218 INDS 281 INDS 305 INDS 310 INDS 312 INDS 313 INDS 315 INDS 319 INDS 370 INDS 380 INDS 405 INDS 433 INDS 464 INDS 465 INDS 481 INDS 482

#### **INDS 105 Introduction to Interior Design**

3c-01-3sh

Presents overview of interior design, including introduction to design, selection, and application of components in the interior environment. Emphasis upon development of effective design problem solving skills. (Offered as CS 217: Interior Design prior to 1998-99)

#### **INDS 118 Drafting for Construction I**

1c-31-3sh

Introduces two- and three-dimensional graphic skills, including basic drawing, drafting, delineating, perspective drawing; applies principles and elements of design; stresses graphic design and layout. (Offered as CS117: Design Graphics prior to 1998-99)

#### **INDS 205 Color Theory and Application**

3c-01-3sh

The theoretical basis of color is presented as it relates to the human visual system, light, pigment, perception, and measurement. The application of color theory is discussed in terms of interior design, merchandising, and display. (Offered as CS205 prior to 1998-99)

#### **INDS 213 Residential Appliances and Consumer Electronics**

2c-21-3sh

Consumer education in the selection, use, and care of home equipment appliances and consumer electronics; the relationship of energy sources and utilities to major appliances, portable and personal care appliances, and consumer electronics. (Offered as CS213 prior to 1998-99)

#### **INDS 218 Drafting for Construction II**

1c-3l-3sh

Prerequisites: INDS 118 and BEDU/COSC/IFMG 101

Introduces basic computer-aided drafting and design (CADD) for designers; emphasizes CADD theory and the value of the computer as a problem-solving, design tool.

#### **INDS 281 Special Topics**

3c-01-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics which are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times.

Special topics numbered 281 are offered primarily for lower-level undergraduate students.

#### **INDS 305 Interior Lighting**

3c-01-3sh

**Prerequisite:** INDS 105 or equivalent

Lighting fundamentals applicable to the environmental design of residential and commercial spaces. Includes calculation methods, terminology, theory of color visibility, light source alternatives, fixture function and selection, lighting trends, and related professional organizations. (Offered as CS465 prior to 1998-99)

#### **INDS 310 Human Factors in Interior Design**

3c-01-3sh

Prerequisite: Junior standing

The study of human and technology systems interface as related to interior design. Emphasis will be on ergonomic and economic decision making to insure that the user can function with a minimum of stress and a maximum of efficiency. (Offered as CS310 prior to 1998-99)

#### **INDS 312 Housing and Culture**

3c-01-3sh

Managerial, sociological, economic, and aesthetic aspects of housing and people are investigated as well as a consideration of the environment of the home as part of the community. (Offered as CS312 prior to 1998-99)

#### **INDS 313 Materials and Finishes**

3c-01-3sh

**Prerequisite:** FSMR 314

An introduction to the modern and historic use and maintenance of materials in architecture, construction, and interior design and the codes and costs that govern their use today. Consideration is given to contemporary methods of harvesting, preparation, and manufacture of building materials and the evaluation of the impact of these processes on the environment.

#### INDS 315 Residential Design I

1c-31-3sh

Prerequisite: INDS 218

Applies interior design space planning and design problem solving processes to residential design and emphasizes graphic communication and presentation of solutions. (Offered as CS357: Interior Design Studio prior to 1998-99)

#### INDS 319 Residential Design II: Kitchen, Bath, Media Room Design

1c-31-3sh

Prerequisite: **INDS** 315

Design elements are applied to kitchen, bath, and media room areas of the residence to provide design solutions supporting individual needs and changing lifestyles. Addresses the needs of special populations. Current national standards will be addressed.

#### INDS 370 Development of Design I

3c-01-3sh

A chronological study from ancient times to the mid-nineteenth century of the dominant influences and characteristics of historical interiors, furniture, and ornamental design. Emphasis is placed upon stylistic detail and its relationship to social, economic, political, religious, and aesthetic influence and to the contemporary scene. (Offered as CS462: Historic Interiors prior to 1998-99)

#### INDS 380 Development of Design II

3c-01-3sh

Prerequisite: **INDS** 370

A chronological study from mid-nineteenth century to the present of the dominant influences and characteristics of the twentieth-century interior, furniture, and ornamental design. Emphasis is placed upon stylistic detail and its

relationship to social, economic, political, religious, and aesthetic influences and to contemporary usage. (Offered as CS463: Modern Interiors prior to 1998-99)

#### **INDS 405 Interior Design Professional Practice**

3c-0l-3sh

**Prerequisite:** Junior standing

Planning, business organization, management, contracts, procedures, and ethics for the professional interior designer. (Offered as CS468 prior to 1998-99)

#### **INDS 433 Study Tour**

var-1-6sh

Prerequisite: Upper-level standing

Opportunity is provided to visit business establishments and cultural centers concerned with household equipment, furnishings, textiles, clothing, and housing in America as well as abroad. Museums, factories, designers' showrooms, distribution centers, stores, cultural events, and seminars are included. Course may be repeated for a total of 6sh. (Cross-listed as CNSV/FSMR 433.)

#### INDS 464 Contract Design I

1c-3l-3sh

Prerequisite: INDS 319

Applies interior design space planning and design problem-solving processes to nonresidential design and links goals in interior design and facility management. (Offered as CS464: Interior Planning and Drawing prior to 1998-99)

#### **INDS 465 Contract Design II**

1c-31-3sh

Prerequisite: INDS 464

A studio, project-based course, ascertaining the process to be followed in developing large-scale nonresidential interior design schemes of over 10,000 square feet.

#### **INDS 481 Special Topics**

3c-01-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics which are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are offered primarily for upper-level undergraduate students.

#### **INDS 482 Independent Study**

var 1-to-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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### **Social Work**

# **Department of Sociology College of Humanities and Social Sciences**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

#### **SOWK 238**

#### **SOWK 238 Introduction to Social Work**

3c-01-3sh

**Prerequisite:** SOC 151 or ANTH 110

Introduction to the dynamics of helping relationships.

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# **Family and Consumer Sciences Education**

#### College of College of Health and Human Services

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

FCSE 281 FCSE 350 FCSE 450 FCSE 481 FCSE 482

#### **FCSE 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

#### FCSE 350 Teaching Family Life Education

3c-01-3sh

Prerequisites: FCSE 250, EDUC 242

Corequisite: EDSP 302

Emphasis will be on teaching family life education in family and consumer sciences classrooms and through community organizations and agencies. Lessons are planned and implemented using a variety of instructional methods incorporating adaptations and modifications for special needs learners, basic skills, global concerns, and use of a problem-solving/decision-making approach. Planning of content, learning activities, instructional materials, and evaluation based on clearly stated objectives are emphasized. A microcomputer spreadsheet is utilized to manage a department budget and a gradebook. Participation in professional organization activities is expected.

#### **FCSE 450 Teaching Vocational Home Economics**

3c-01-3sh

**Prerequisite:** FCSE 350

Emphasis is on teaching vocational family and consumer sciences in consumer/homemaking and occupational family and consumer sciences programs. Federal legislation impacting on family and consumer sciences is analyzed for use in program decisions. Emphasis is given to program development using CBVE model, development of individual learning packets, vocational youth organizations, advisory committees, family and consumer sciences and vocational educational priorities, professional organizations, proposal development for funding, impact on public policy, marketing family and consumer sciences, and development of a personal philosophy of family and consumer sciences education.

#### **FCSE 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

#### FCSE 482 Independent Study

# var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office Upper-level students with high scholastic achievement pursue their particular interests outside the realm of the organized home economics education curriculum. May be taken more than once to a maximum of 3sh. Approval is based on academic appropriateness and availability of resources.

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# Nursing

# Department of Nursing College of Health and Human Services

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

NURS 280 NURS 281 NURS 285 NURS 302 NURS 303 NURS 304 NURS 305 NURS 322 NURS 323 NURS 402 NURS 403 NURS 404 NURS 405 NURS 407 NURS 422 NURS 423 NURS 430 NURS 480 NURS 481 NURS 482 NURS 493

# **NURS 280 Introduction to Nursing**

3c-01-3sh

**Prerequisite:** Nursing majors only

Introduces the major concepts of concern to nursing: persons in their environments, health, and the profession of nursing. Topics include the nurse's role as provider of care and member of a profession; the nursing process as the mode of practice; the value of research as a basis for nursing practice; biophysical and psychosocial components of wellness.

# **NURS 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

# **NURS 285 Introduction to Clinical**

0c-91-3sh

Prerequisite: Nursing majors only

A clinical and college laboratory course which provides the opportunity to practice the use of the nursing process. Emphasis is placed on assessment and basic intervention skills.

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#### **NURS 302 Core I**

2c-01-2sh

Prerequisite: NURS 280

Emphasizes the involvement of nurses and nursing in selected aspects of wellness promotion and maintenance. The theory base for the use of the nursing process to support individuals and families through maturational change and the childbearing cycle is presented.

#### **NURS 303 Clinical Laboratory I**

0c-14l-5sh

Prerequisites: NURS 280, NURS 285

A clinical laboratory course which enables the student to care for individuals and families across the life span. Guided

experiences are provided in hospital and community-based facilities. The nursing process is utilized to promote and maintain wellness in individuals within families.

#### **NURS 304 Core II**

2c-01-2sh

Prerequisite: NURS 302

Emphasizes the involvement of nurses and nursing in selected aspects of wellness, promotion, maintenance, and restoration. The theory base for the use of the nursing process is expanded to include family, community health, and transcultural nursing concepts.

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#### **NURS 305 Clinical Laboratory II**

0c-14l-5sh

**Prerequisite:** NURS 303

A clinical laboratory course which enables the student to provide care to individuals and families with acute and chronic health problems across the life span. Guided experiences are provided in hospital and community-based facilities and individuals' homes. The nursing process is utilized to promote, maintain, and restore optimal wellness in individuals within families.

# NURS 322 Maintenance and Restoration of Wellness I

3c-01-3sh

Prerequisites: NURS 280, NURS 285

Introduces pathophysiologic change in individuals across the life span and associated nursing management. Topics include caring for the individual who requires surgery or whose alteration in health is related to problems in oxygenation, nutrition, and fluid and electrolyte balance.

#### **NURS 323 Maintenance and Restoration of Wellness II**

3c-01-3sh

Prerequisite: NURS 322

Physiologic and psychologic pathology in individuals across the life span and associated nursing management. Topics include caring for the individual whose alteration in health is related to problems with reproductive, cognitive-perceptual, motor, metabolic, and elimination function.

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#### **NURS 402 Core III**

2c-01-2sh

Prerequisite: NURS 304

Emphasizes the nurse's roles as accountable provider and coordinator of care and member of a profession. The specific issues that are addressed are quality assurance in provision of patient care; rights and responsibilities of the individual, the nurse as an employee, and the employer; current environmental health concepts.

#### **NURS 403 Clinical Laboratory III**

0c-14l-5sh

**Prerequisite: NURS 305** 

A clinical laboratory course which affords the opportunity to apply the nursing process as provider and coordinator of care with individuals and families experiencing complex health care needs in a variety of health care facilities.

#### **NURS 404 Core IV**

2c-01-2sh

Prerequisite: NURS 402

Emphasizes the nurse's roles as provider and coordinator of care in health care facilities and in emergency and disaster situations. Concepts and principles related to the management of the health care team, community health, and rehabilitation are addressed.

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## **NURS 405 Clinical Laboratory IV**

0c-14l-5sh

Prerequisite: NURS 403

A clinical laboratory course which affords the opportunity for the application of critical thinking, health teaching, and management skills. Emphasizes development of the caregiver role in selected areas of clinical practice; development of the care provider and coordinator roles in inpatient and community settings with individuals and families experiencing complex health care needs; integration of the roles of provider and coordinator of care and member of a profession.

#### **NURS 407 Skills for Professional Success**

1c-0l-1sh

**Prerequisite:** must be enrolled in senior level nursing courses

A 1sh elective for senior nursing majors designed to help students foster clinical judgment skills by focusing on critical thinking and test-taking. Emphasis is placed on preparing students with the skills that are essential for success on the National Council Licensure Examination for Registered Nurses (NCLEX-RN).

#### **NURS 422 Maintenance and Restoration of Wellness III**

3c-01-3sh

**Prerequisite:** NURS 323

Emphasizes pathophysiology and psychopathology for understanding the complex process of the individual's adaptation to crisis. The theory base for the application of the nursing process in the care of individuals requiring hospitalization, life-sustaining treatment, intensive monitoring, and crisis intervention is discussed.

#### **NURS 423 Maintenance and Restoration of Wellness IV**

3c-01-3sh

Prerequisite: NURS 422

Emphasizes strategies used in assisting individuals and their families in the promotion, maintenance, and restoration of optimal wellness. The theory base for the application of the nursing process when illness is being managed in acute, long-term care, and community settings is discussed.

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#### **NURS 430 Nursing Research**

3c-01-3sh

Prerequisite: MATH 217

The focus is on evaluating research through a study of research design, methodologies, sampling, data analysis, and significance of findings. Consideration is given to issues in conducting research and the impact on problems investigated, the nurse researcher, and the consumer of research.

#### **NURS 480 Seminar in Nursing**

1c-0l-1sh

Prerequisites: NURS 280, NURS 285

A seminar which provides a forum for the exploration and discussion of issues relevant to the professional nurse. Emphasis is placed on the development of professional values, critical thinking, decision-making, and communication skills. A selection of topics on current issues and trends will be offered each semester; each will focus on a particular theme related to nursing practice. 1sh of seminar is required in each semester in the upper-division nursing courses.

#### **NURS 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special

topics numbered 481 are primarily for upper-level undergraduate students.

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# **NURS 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

# **NURS 493 Internship**

var-1-12sh

Prerequisite: NURS 280, 285; 57 credits completed; minimum 2.0 GPA

Supervised experience in a practice setting which extends and complements coursework in nursing. Types of practice settings may include acute care hospitals, outpatient centers, and community agencies.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# **Respiratory Care**

# Department of Nursing and Allied Health Professions College of Health and Human Services

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

RESP 101 RESP 326 RESP 327 RESP 328 RESP 329 RESP 330 RESP 333 RESP 334 RESP 335 RESP 336 RESP 337 RESP 342 RESP 425 RESP 426 RESP 428 RESP 429 RESP 430 RESP 431 RESP 433 RESP 434 RESP 436 RESP 437 RESP 438 RESP 481

# **RESP 101 The Profession of Respiratory Care**

1c-0l-1sh

Introduces the student to the health care environment and specifically the respiratory care profession. Students will visit a hospital respiratory care department and observe basic respiratory patient care procedures.

# **RESP 326 Respiratory Care Clinical Practice I**

var-3sh

First exposure to patient care. An introduction to and practice of basic respiratory care treatment modalities.

# **RESP 327 Pharmacology**

3c-01-3sh

An introduction to pharmacology and therapeutics. Emphasis placed on the drugs used in respiratory care. Drug classification, action, usage, dosage, and availability will be discussed.

#### **RESP 328 Introduction to Respiratory Care**

4c-01-4sh

Topics include medical terminology and an overview of cellular structure and function. Emphasis is placed on neurophysiology, respiratory anatomy, and physiology.

Back to Top

#### **RESP 329 Respiratory Care Equipment**

4c-01-4sh

An introduction to respiratory therapy equipment, related procedures and principles, techniques and theory of mechanical ventilation. Special emphasis will be given to oxygen delivery systems and the rationale for their use.

#### **RESP 330 Cardiopulmonary Resuscitation**

2c-01-2sh

A comprehensive analysis of the principles and practices of numerous methods of resuscitation.

#### **RESP 333 Respiratory Care Clinical Practice II**

var-4sh

Treatment procedures introduced in Clinical I are continued with greater emphasis on independence. Specialty rotations are added to broaden exposure to respiratory care and critical care.

#### Back to Top

# **RESP 334 Respiratory Care Instrumentation and Application**

4c-01-4sh

Provides students with a comprehensive knowledge of mechanical ventilation. The care of critically ill and physiologic consequences of mechanical ventilation will be discussed.

### **RESP 335 Nursing Arts**

3c-01-3sh

An overview of the history of respiratory care and nursing. Topics include medical records, infection control, sterilization, and psychosocial aspects of illness.

#### **RESP 336 Cardiopulmonary Evaluation and Clinical Correlation**

4c-01-4sh

Disease states of the pulmonary and related systems are investigated in progression from etiology through treatment and prognosis.

#### Back to Top

#### **RESP 337 Introduction to Pulmonary Function Studies**

1c-01-1sh

The student is introduced to the basic principles of lung volumes, capacities, and their measurement. Blood gas sampling and electrodes are also explored.

#### **RESP 342 Preceptorship in Respiratory Care**

1c-0l-1sh

Prerequisites: RESP 326, 328, 329, 330, permission

An opportunity for students to gain additional clinical experiences in a supervised health care setting. Must meet university and sponsoring preceptorship requirements. May be repeated for a maximum of 5sh. A minimum of 40 hours is required for each credit.

#### **RESP 425 Clinical Case Studies**

3c-01-3sh

Designed to increase the working knowledge of disease states commonly experienced by patients in the critical care setting. Emphasis is placed on recognition and treatment of various disease states. Methods for evaluation and treatment of clinical oxygenation disturbances and acid-base disorders will be explored. Clinical simulations, case studies, and patient management problems reviewed and discussed. Emphasis is on appropriate information-gathering and decision-making techniques.

#### **RESP 426 Respiratory Care Clinical Practice III**

var-5sh

Respiratory care treatment procedures are continued with emphasis on improving proficiency and refining skills. Students will make rounds with physicians.

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#### **RESP 428 Essentials of Electrocardiography**

2c-01-2sh

Designed to acquaint the student with basic principles in cardiac electrodiagnostics. Topics include the technique of ECG testing and fundamentals of ECG arrhythmia recognition.

#### **RESP 429 Design and Function of a Respiratory Care Program**

2c-01-2sh

Basic management principles as they apply to the hospital setting; in particular, respiratory care departments and schools will be discussed.

## **RESP 430 Pulmonary Function Studies**

2c-01-2sh

**Prerequisite:** RESP 337

Introduces the student to the advanced diagnostic studies and equipment necessary for diagnosing and quantifying the various lung diseases. Included are advances in invasive studies and rehabilitation evaluation tools.

## Back to Top

# **RESP 431 Pediatric Respiratory Care**

1c-0l-1sh

**Prerequisites:** RESP 334 and RESP 336

The application of respiratory care to children ages six months to fifteen years is explored. Cardiopulmonary pathophysiology and treatment for the following disorders are discussed: Croup, Epiglottitis, Asthma, Cystic Fibrosis, Congenital Heart Defects, Abdominal and Chest Wall Defects.

## **RESP 433 Respiratory Care Clinical Practice IV**

var-5sh

Rotations on treatment and intensive respiratory care are continued. Advanced rotations are included.

# **RESP 434 Neonatal Respiratory Care**

3c-01-3sh

Basic terminology, anatomy, and pathophysiology of obstetric, fetal, neonatal, and pediatric patients will be presented.

## **Back to Top**

#### **RESP 436 Respiratory Care Teaching**

2c-01-2sh

An introduction to respiratory education.

#### **RESP 437 Methods in Critical Care**

2c-01-2sh

Critical Care diagnostic and therapeutic modalities pertinent to respiratory care will be discussed. Topics include invasive and noninvasive cardiac monitoring, pulmonary monitoring, neurological assessment, ventilator commitment, and discontinuance.

# **RESP 438 Cardiopulmonary Rehabilitation**

1c-0l-1sh

Techniques and principles associated with cardiopulmonary rehabilitation programs are surveyed. Topics also include the management of chronic pulmonary disease in the home and the application of respiratory equipment and mechanical ventilators in this setting.

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# **RESP 481 Special Topics**

var-1-3sh

Prerequisite: As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# Medical Technology

# Department of Nursing and Allied Health Professions College of Health and Human Services

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

#### MEDT 494 MEDT 495 MEDT 496 MEDT 497 MEDT 498 MEDT 499

#### **MEDT 494 Clinical Microbiology**

var-6-10sh

Identification and clinical pathology of bacteria, fungi, viruses, and parasites. Techniques to isolate, stain, culture, and determine antimicrobial susceptibility. Instrumentation; quality control.

## **MEDT 495 Clinical Chemistry**

var-7-10sh

Enzymology, endocrinology, biochemistry of lipids, carbohydrates, and proteins; metabolism of nitrogenous end products; physiology and metabolism of fluids and electrolytes; and toxicology as related to the body and diseases. The technical procedures include colorimetry, spectrophometry, electrophoresis, chromatography, automation, and quality control.

# MEDT 496 Clinical Hematology/Coagulation

var-4-7sh

The composition and function of blood; diseases related to blood disorders; the role of platelets and coagulation. Manual and automated techniques of diagnostic tests for abnormalities.

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#### **MEDT 497 Clinical Immunohematology**

var-3-6sh

Blood antigens, antibodies, crossmatching, hemolytic diseases, and related diagnostic tests. An in-depth study of blood donor service and its many facets such as transfusions, medico-legal aspects, etc.

# MEDT 498 Clinical Immunology/Serology

var-2-4sh

Immune response, immunoglobulins, autoimmunity, and complement and related tests and diseases. Survey and demonstration of serological diagnostic tests.

#### **MEDT 499 Clinical Seminar**

var-0-6sh

Other courses which are not included in the above (such as orientation, laboratory management, education, clinical microscopy) and/or are unique to the individual hospital program.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# Gerontology

# **Department of Nursing and Allied Health Professions College of Health and Human Services**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

#### GERN 281 GERN 481 GERN 482 GERN 493

## **GERN 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

# **GERN 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content.

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

# **GERN 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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#### **GERN 493 Internship**

3sh

**Prerequisites:** Senior standing, all required courses

Supervised experience in public or private agency that serves aging clients.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# **Regional Planning**

# **Department of Geography and Regional Planning College of Humanities and Social Sciences**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

RGPL 213 RGPL 281 RGPL 313 RGPL 314 RGPL 316 RGPL 332 RGPL 333 RGPL 350 RGPL 352 RGPL 353 RGPL 412 RGPL 415 RGPL 417 RGPL 454 RGPL 458 RGPL 464 RGPL 468 RGPL 481 RGPL 482 RGPL 493

#### **RGPL 213 Cartography I**

3c-01-3sh

Introduces students to principles of thematic map construction. Emphasis is on the techniques of choropleth mapping and the production of scientific graphs and charts. (Also offered as GEOG 213; may not be taken for duplicate credit)

#### **RGPL 281 Special Topics**

3c-01-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students. (May also be offered as GEOG 281; may not be taken as duplicate credit under same title)

#### **RGPL 313 Cartography II**

3c-01-3sh

**Prerequisite:** RGPL 213

Gives an understanding of the compilation and use of maps and quantitative data. Develops skills essential to the construction of various types of maps. (Also offered as <u>GEOG 313</u>; may not be taken for duplicate credit)

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# **RGPL 314 Map and Photograph Interpretation**

3c-01-3sh

Maps and air photographs, along with remote sensing materials, permit inventory and analysis of geologic, land use, urban development, and other landscape phenomena. The understanding of these materials and associated tools for their use is presented. (Also offered as GEOG 314; may not be taken for duplicate credit)

#### **RGPL 316 Introduction to Geographic Information Systems**

3c-01-3sh

Prerequisite: RGPL 213, or equivalent, or permission of instructor

Automated methods for creating, maintaining, and analyzing spatial data are presented. Topics include 1) specialized GIS hardware and software, 2) vector vs. raster vs. object-oriented spatial data structures, 3) creation and manipulation of geographic data files, 4) database design and management concepts, 5) spatial analysis, and 6) cartographic design. (Also offered as GEOG 316; may not be taken for duplicate credit)

#### **RGPL 332 Urban Geography**

3c-01-3sh

Basic concepts of urban geography including site, situation, function, urban land use, urban structure, and urban hierarchy are introduced. Relationships between urban geography and urban planning are explored. (Also offered as GEOG 332; may not be taken for duplicate credit)

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### **RGPL 333 Trade and Transportation**

3c-01-3sh

Deals with the spatial aspects of transportation systems and their use. Circulation, accessibility, time and distance concepts, and trade patterns are discussed. (Also offered as GEOG 333; may not be taken for duplicate credit)

#### **RGPL 350 Introduction to Planning**

3c-01-3sh

An introduction to the profession and activity of contemporary American urban and regional planning. Course emphasis is placed on land use control, design, growth management, and development regulation. The legal and institutional bases of planning practice are covered as well. (Offered as GE360 Introduction to Planning prior to 1996-97)

#### **RGPL 352 Planning Methods**

3c-01-3sh

Research, analytical design, and plan-making techniques in urban and regional planning. Examines basic items necessary to prepare urban and regional comprehensive plans. (Also offered as GEOG 352; may not be taken for duplicate credit) (Offered as GE361: Planning: Basic Studies and Analysis prior to 1996-97)

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## **RGPL 353 Planning Design I**

3c-01-3sh

Introduces students to professional graphic communications. Emphasis is placed on the use of 2-D Computer Aided Design (CAD) applications, plan graphics, and professional standards to represent and solve basic physical planning problems.

#### **RGPL 412 Research Seminar**

3c-01-3sh

**Prerequisite: RGPL 468** 

This senior seminar and workshop is a capstone course that focuses on recent research in the major field. Students carry out a research project on a topic of local or regional importance. (Also offered as GEOG 412; may not be taken for duplicate credit) (Offered as GE312: Research in Geographical Planning prior to 1996-97)

#### **RGPL 415 Remote Sensing**

3c-01-3sh

Deals with air photographs, satellite imagery, thermal sensing, and radar imagery and their application to deriving information about the earth's physical and cultural landscapes. (Also offered as <u>GEOG 415</u>; may not be taken for duplicate credit)

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#### **RGPL 417 Technical Issues in GIS**

3c-01-3sh

**Prerequisite:** RGPL 316

A project-based class in which students learn the skills to develop and maintain a Geographic Information System. Through cooperative learning students will design and implement functional systems. Methods for designing GIS

systems to user specification, data collection, data input, project management, and system documentation are covered. (Also offered as GEOG 417; may not be taken for duplicate credit)

#### **RGPL 454 Planning Design II**

3c-01-3sh

Prerequisites: RGPL 350, RGPL 353 or instructor's permission

Introduces students to the activity of design, design programming, design decision making, and design communications. Focuses specifically on the development of site planning, site analysis, and site design skills as well as the translation of design program elements into physical form. (Offered as GE463 Planning: Design prior to 1996-97; and RGPL 354 Planning Design prior to 2000-01)

#### **RGPL 458 Land Use Law**

3c-01-3sh

**Prerequisite:** RGPL 350

Introduces students to principles of land use law. Focus is on federal constitutional principles and key Supreme Court cases, especially as they relate to actions of local units of government and municipal planning practice. Deals with the present state of land use law and with current trends and issues.

#### **RGPL 464 Land Use Policy**

3c-01-3sh

**Prerequisite:** RGPL 350

Introduces students to and provides an overview of land use issues at the regional, state, and federal levels. Emphasis is placed upon the evolution of contemporary policy strategies, constitutional issues, and regional controversies involved in the regulation of metropolitan growth, central city decline, and management of public lands. (Also offered as GEOG 464; may not be taken for duplicate credit)

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#### **RGPL 468 Planning Theory**

3c-01-3sh

Prerequisite: RGPL 350, RGPL 352, RGPL 354, or permission of instructor

Seminar on contemporary debates concerning planning traditions, principles, and practices. The activity of planning is investigated from several theoretical frames and analytic positions. (Offered as GE462 Planning: Development, Principles, and Theory prior to 1996-97)

#### **RGPL 481 Special Topics**

3c-01-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students. (May also be offered as GEOG 481; may not be taken for duplicate credit under same title)

#### **RGPL 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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#### **RGPL 493 Internship**

var-1-12sh

Professional learning experience with emphasis on application of academic background. Open to majors and minors in regional planning with a total of 57sh and 15sh in the major. See internship supervisor for additional information.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# **Biochemistry**

#### **Biochemistry Program**

**College of Natural Sciences and Mathematics** 

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

BIOC 301 BIOC 302 BIOC 311 BIOC 312 BIOC 480 BIOC 481 BIOC 482 BIOC 490

#### **BIOC 301 Biochemistry I**

3c-01-3sh

Prerequisites: BIOL 111 and CHEM 232

An introduction to biochemistry emphasizing the structure and function relationships of proteins, enzymes, and vitamins; bioenergetics; and the metabolism of carbohydrates and lipids.

#### **BIOC 302 Biochemistry II**

3c-01-3sh

Prerequisite: **BIOC 301** 

A continuation of BIOC 301 concerning the metabolism of nitrogen, amino acids, nucleotides, and nucleic acids and the function of cell membranes, hormones, and specialized tissues.

# **BIOC 311 Biochemistry Laboratory I**

0c-4l-1sh

**Prerequisites:** BIOL 111 and CHEM 232

A companion to BIOC 301 including experiments in photometry, enzyme kinetics and purification, lipid isolation and characterization, electron transport in respiration and photosynthesis, and use of radioisotopes.

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# **BIOC 312 Biochemistry Laboratory II**

0c-4l-1sh

**Prerequisite: BIOC 311** 

A companion to BIOC 302 including experiments in membrane characterization, properties of amino acids, isolation and function of nucleic acids, and synthesis of proteins and nucleic acids.

#### **BIOC 480 Biochemistry Seminar I**

1c-0l-1sh

Prerequisites: BIOC 302 and 312

A discussion of recent trends in biochemical thought. Oral and written reports on assigned readings, library or laboratory research. Guest lecturers. The combination BIOC 480 and 490 counts as one writing-intensive course.

# **BIOC 481 Special Topics in Biochemistry**

var-1-3sh

**Prerequisites:** BIOC 302 or CHEM 351

A lecture-discussion course of recent biochemical topics or those of unique interest. Topic and instructors to change annually.

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# **BIOC 482 Independent Research in Biochemistry**

var-1-3sh

**Prerequisites:** <u>BIOC 302</u> and <u>312</u>, permission by program coordinator

Student conducts a research project in any area of biochemistry. Work supervised by faculty. Does not involve regular class or lab hours. Enrollment by permission only.

# **BIOC 490 Biochemistry Seminar II**

1c-01-1sh

**Prerequisites:** <u>BIOC 302</u>, <u>312</u>, and <u>480</u>

A discussion of recent trends in biochemical thought. Oral and written reports on assigned readings, library or laboratory research. Guest lecturers. The combination BIOC 480 and 490 counts as one writing-intensive course.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# **Vocational Education**

# **Center for Vocational-Technical Personnel Preparation School of Continuing Education**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

<u>VOED 010 VOED 100 VOED 281 VOED 395 VOED 400 VOED 401 VOED 402 VOED 450 VOED 481 VOED 482</u>

#### **VOED 010 Industrial Electrical Technology**

var-1-18sh

**Prerequisite:** Center/department permission

Emphasis will be on comprehensive industrial electrical technology through training in specialty concentrations applied to design, development, and testing of electrical circuits, devices, and systems for generating electricity and the distribution and utilization of electrical power. Carries institutional credit only.

# **VOED 100 Preparation of the Vocational Professional I**

var-1-15sh

Personalized, self-paced vocational teacher preparation. The vocational student/intern develops, demonstrates, and documents competence in selected pedagogical competencies. Individualized instruction is supplemented with monthly seminars. Self-evaluation is encouraged in the program, utilizing videotaping and the feedback from a team of professional teacher educators.

#### **VOED 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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#### **VOED 395 Vocational Education Writing Experience**

var-0sh

Writing assignments such as abstracts, logs of activities, philosophy papers, training plans, presentation plans, lesson plans, etc., will be completed in conjunction with selected instructional modules from <u>VOED 100</u> and <u>VOED 400</u> courses.

#### **VOED 400 Preparation of the Vocational Professional II**

var-1-15sh

**Prerequisite:** Successful completion of <u>VOED 100</u>

Personalized, self-paced vocational teacher preparation. The vocational student/intern develops, demonstrates, and documents competence in selected teaching skills in the areas of program planning, program development, program evaluation, and managing and evaluating instruction in a vocational school setting. Self-evaluation is encouraged in the program, utilizing videotaping and the feedback from a team of professional teacher educators.

#### **VOED 401 Special Topics in Vocational Technical Preparation**

var-1-12sh

**Prerequisite:** Center permission

Provides opportunities for vocational students/interns to develop additional technical skills in areas related to their occupational competence under professional supervision. Topics are determined through individual counseling, through priority needs identified by advisory committees, and through evaluation of technical competence by center teaching staff.

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#### **VOED 402 Special Topics in Vocational Pedagogical Preparation**

var-1-15sh

**Prerequisite:** Center permission

Provides opportunities for vocational students/interns to develop additional teaching skills under professional supervision. Topics are determined through identification of priority areas in vocational education using national and state surveys and students' individual needs.

#### **VOED 450 Technical Preparation of the Vocational Professional**

24 ch

Competency assessment of occupational experience through national standardized written and performance examinations.

## **VOED 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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#### **VOED 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# **Elementary Education**

**Professional Studies in Education College of Education and Educational Technology** 

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

ELED 211 ELED 213 ELED 215 ELED 221 ELED 222 ELED 257 ELED 281 ELED 312 ELED 313 ELED 314 ELED 322 ELED 351 ELED 357 ELED 411 ELED 422 ELED 425 ELED 481 ELED 482

Note: Courses in Elementary Education are restricted to majors with a 2.5 average, except by departmental permission.

#### **ELED 211 Music for the Elementary Grades**

2c-01-2sh

Geared for elementary education students. Includes basic ideas for understanding, development, and confidence for future classroom teachers and their pupils in areas of music education.

# **ELED 213 Art for the Elementary Grades**

2c-01-2sh

The creative use of art materials and an understanding of development of capacities of children through art.

#### **ELED 215 Child Development**

3c-01-3sh

A survey of human development, from conception to adolescence, in terms of basic scientific data. Development, growth, and behavior are studied and their implications for home, school, and community are considered.

#### **ELED 221 Children's Literature**

3c-01-3sh

Acquisition of a wide acquaintance with children's literature, old and new. Poetry selections, annotated stories, and bibliographies will be assembled. Ways and means to develop, stimulate, and guide children's reading of literature presented. Principles and techniques of successful storytelling are studied and practiced.

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#### **ELED 222 Reading for the Elementary School**

3c-01-3sh

A systematic coverage of the teaching of reading, including methods, techniques, and materials.

#### ELED 257 Pedagogy I

3c-01-3sh

Competencies specific to the science of teaching will be introduced. Students will become familiar with the fundamentals of teaching at the elementary level. Areas that will be explored include models of teaching, including

lesson and unit planning, and creating a classroom environment that is conducive to learning. (Offered as EL356 prior to 1997-98)

## **ELED 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

# **ELED 312 Teaching of Elementary Science**

2c-01-2sh

Emphasis placed upon science as it relates to child and curriculum, planning for teaching science, and recent innovations in science teaching. Course offered on the junior block only.

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#### **ELED 313 Teaching Mathematics in the Elementary School**

3c-0l-3sh

Prerequisites: MATH 151, 152, ELED 257

Recent developments in curriculum and methods of instruction of contemporary elementary school mathematics programs. Students will become acquainted with books, materials, and other resources helpful to prospective teachers. Includes observations of master teachers.

#### **ELED 314 Teaching of Health and Physical Education**

2c-01-2sh

Games, stunts, rhythms, relays, tumbling, dances, and skills suitable for the elementary school child. Teaching of health in elementary school is emphasized, including methods, materials, and lesson planning.

#### **ELED 322 Teaching of Reading II**

3c-01-3sh

The second course of a two-course sequence. Systematic coverage of teaching of reading, including methods, materials, and lesson planning.

#### **ELED 351 Creative Activities in the Elementary School**

3c-01-3sh

Provides students with a wide range of creative experiences in fields of art, crafts, music, rhythmics, dramatics, and games in elementary school. Stress is placed upon need to help children in developing their capacities for creative expression in these areas.

#### Back to Top

#### ELED 357 Pedagogy II

3c-01-3sh

**Prerequisite:** Junior status

Principles based on classroom experience. Instruction will include classroom management skills, integration of computers in the elementary curriculum, contemporary issues in education, the role of research in elementary classroom teaching, and teacher professionalism during and after field experiences. (Course is writing intensive.)

#### **ELED 411 Teaching of Social Studies**

3c-01-3sh

An overview of social studies in elementary school. Includes study of objectives, trends, areas of content, patterns and principles of organization, and techniques of teaching. Variety of learning experiences and materials used and evaluated.

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#### **ELED 422 Diagnostic and Remedial Reading**

3c-01-3sh

Prerequisite: **ELED 222** 

Causes of reading disability; methods of diagnosis; procedures and materials for remedial work, group and individual.

## **ELED 425 Language Arts Across the Curriculum**

3c-01-3sh

**Prerequisite:** ELED 222

Places emphasis on the view that the art of communication is an interrelated process and the task of classroom teachers is not only integrating the language arts among themselves but also integrating them throughout the entire curriculum. Techniques for teaching oral and written communication, spelling, handwriting, vocabulary development, listening, and linguistics will be presented. Special emphasis given to recent trends and research. Course is offered as a writing-intensive course.

#### **ELED 481 Special Topics**

var-3sh

**Prerequisite:** Approval of instructor and department

A course/seminar on topics in education appropriate for the Elementary Education setting.

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## **ELED 482 Independent Study**

var-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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# **Business Education**

**Department of Technology Support and Training Eberly College of Business and Information Technology** 

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

BEDU 101 BEDU 111 BEDU 130 BEDU 132 BEDU 201 BEDU 250 BEDU 264 BEDU 273 BEDU 281 BEDU 311 BEDU 312 BEDU 481 BEDU 482

**Note:** All courses at the 300 and 400 level are open only to students with junior or senior standing. All students, regardless of major or program affiliation, must meet course prerequisite requirements in order to enroll for a given course. Business majors (except those majoring in Business Education) who have not achieved Junior Standing are normally not permitted to enroll in 300- or 400-level courses.

#### **BEDU 101 Microbased Computer Literacy**

3c-01-3sh

An introductory course designed to provide students with a fundamental understanding of computers. Familiarizes students with the interaction of computer hardware and software. Emphasis is placed on the application of microcomputers, the use of productivity software (word processing, spreadsheet management, file and database management), and the social and ethical aspects of the impact of computers on society.

Note: This course is cross-listed as <u>COSC 101</u> and <u>IFMG 101</u>. Any of these courses may be substituted for each other and may be used interchangeably for D or F repeats but may not be counted for duplicate credit.

#### **BEDU 111 Foundations of Business Mathematics**

3c-01-3sh

Develops an understanding of numbers and knowledge of fundamental concepts in arithmetic and algebra in the solution of common and advanced problems encountered in business by the businessperson and consumer. Topics illustrating and emphasizing the application of business mathematics include methods used to compute interest discount, partial payments, discounting of notes and drafts, depreciation, amortization, sinking fund redemptions, effective rate of interest, and preparation of statistical data.

## **BEDU 130 Keyboarding**

1c-0l-1sh

**Exception:** This course is open to students in all colleges without restriction.

Designed to provide students with the fundamental skills to keyboard information quickly and accurately in fourteen one-hour sessions. It is intended for the student who does not require the additional skills included in keyboarding and document formatting, such as letter formats, manuscript typing, and tabulation. Recommended for students in computer science, journalism, management information systems, criminology, etc. (Offered as BE134 prior to 1998-99)

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#### **BEDU 132 Computer Keyboarding and Formatting**

3c-01-3sh

**Prerequisite:** BEDU 130 or successful completion of proficiency exam

Focuses on the development of correct techniques in keyboarding. Emphasis is on proofreading, formatting tabulations, business letters, business reports, business forms, rough drafts, and manuscripts; additional emphasis on production, accuracy, and speed.

#### **BEDU 201 Internet and Multimedia**

3c-01-3sh

**Prerequisite:** BEDU 101/COMM 101/COSC 101/IFMG 101 or prior exposure to word processing and electronic mail The major focus will be on the evaluation of information and multimedia resources available on electronic networks when doing research in an area of one's choice. This information literacy course is designed for students to gain a more in-depth understanding of the information resources available electronically and of how to utilize them more effectively in communicating. Students will learn how to access and utilize these resources for two-way communications and support for decision making while incorporating selected elements in multimedia presentations of their own design. (BEDU 201/COMM 201/COSC 201/IFMG 201/LIBR 201 may be used interchangeably for D or F repeats and may not be counted for duplicate credit.)

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#### **BEDU 250 Electronic Office Procedures**

3c-01-3sh

**Prerequisite:** <u>BEDU 131</u> or equivalent

A study of the theory and practice of the systems in an electronic office: records management, office environment, communication transmittal systems, reprographics, and office procedures.

#### **BEDU 264 Office Procedures**

3c-01-3sh

**Prerequisite:** BEDU 131 or equivalent

An advanced study of theory and practice in activities common to office records management; handling of mail; telephone and telegraph services; receiving callers; writing reports; dictation and transcription equipment; bank, financial, and legal transactions; shipping and receiving services; reference books; etc.

#### **BEDU 273 Word Processing Applications**

3c-01-3sh

**Prerequisite:** BEDU 131 or equivalent

Students will develop a high degree of proficiency in the use of word processors. Emphasis is on machine operations and production skills in formatting, text editing, and understanding word processing concepts. May not be used as a substitute for BEDU/COSC/IFMG 101.

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#### **BEDU 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

#### BEDU 311 Methods and Evaluation in Business and Marketing Education I

3c-01-3sh

**Prerequisites:** <u>PSYC 101</u>, <u>EDSP 202</u>, and completion of the freshman and sophomore courses in the student's major areas

Includes general methods of teaching and evaluation plus methods and evaluation in basic business courses. Unit plans, lesson plans, and unit tests are emphasized. Techniques and procedures of teaching and classroom management are studied. Includes units in vocational education such as advisory committees, adult education, and federal legislation for funding.

# BEDU 312 Methods and Evaluation in Business and Marketing Education II

var-1-3sh

Prerequisite: <u>BEDU 311</u>, <u>EDSP 202</u>

Emphasis is placed on the development of methods and strategies for making effective classroom presentations and working with students in both the skill and cognitive areas. Students will be provided opportunities to undertake the many responsibilities assigned to the business classroom teacher.

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#### **BEDU 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

#### **BEDU 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# **Computer Science**

**Department of Computer Science College of Natural Sciences and Mathematics** 

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

COSC 101 COSC 105 COSC 110 COSC 201 COSC 205 COSC 220 COSC 250 COSC 281 COSC 300 COSC 304 COSC 310 COSC 315 COSC 319 COSC 320 COSC 345 COSC 352 COSC 354 COSC 355 COSC 360 COSC 362 COSC 380 COSC 405 COSC 410 COSC 419 COSC 420 COSC 424 COSC 430 COSC 432 COSC 441 COSC 444 COSC 450 COSC 451 COSC 460 COSC 480 COSC 481 COSC 482 COSC 485 COSC 493

# **COSC 101 Microbased Computer Literacy**

3c-01-3sh

An introductory course designed to provide students with a fundamental understanding of computers. Familiarizes students with the interaction of computer hardware and software. Emphasis is placed on the application of microcomputers, the use of productivity software (word processing, spreadsheet management, file and database management), and the social and ethical aspects of the impact of computers on society. (Does not count toward Computer Science major.)

**Note:** This course is cross-listed as <u>BEDU 101</u> and <u>IFMG 101</u>. Any of these courses may be substituted for each other and may be used interchangeably for D or F repeats but may not be counted for duplicate credit.

# **COSC 105 Fundamentals of Computer Science**

3c-01-3sh

The first course for Computer Science majors. Required of all Computer Science students and appropriate for other Natural Sciences and Mathematics students. Topics include the fundamental concepts of computer architecture, algorithm development and analysis, programming languages, software engineering, data organization and representation, and systems software. Hands-on introduction to computer usage with an emphasis on terminology and the underlying connections within the discipline.

#### **COSC 110 Problem Solving and Structured Programming**

3c-01-3sh

(For Science, Mathematics, and Computer Science majors, and for others who have a sufficiently quantitative orientation)

Basic structure of modern digital computers; problem analysis and computer solution using flowcharting and the C++ language. Exemption or credit by examination possible.

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#### **COSC 201 Internet and Multimedia**

3c-01-3sh

**Prerequisite:** BEDU 101/COSC 101/IFMG 101 or prior exposure to word processing and electronic mail. The major focus will be on the evaluation of information and multimedia resources available on electronic networks when doing research in an area of one's choice. This information literacy course is designed for students to gain a more in-depth understanding of the information resources available electronically and of how to utilize them more

effectively in communicating. Students will learn how to access and utilize these resources for two-way communications and support for decision making while incorporating selected elements in multimedia presentations of their own design. (BEDU 201/COMM 201/COSC 201/IFMG 201/LIBR 201 may be used interchangeably for D or F repeats and may not be counted for duplicate credit.)

### **COSC 205 Programming Languages for Secondary Education**

3c-01-3sh

**Prerequisite:** Education major

Provides an introduction to the three high-level programming languages most commonly used in secondary education: Pascal, LOGO, and BASIC, with particular emphasis on Pascal. Also includes a comparative study of the control structures and data structures present in these three languages. Intended to establish a solid foundation to prepare prospective teachers of computing courses K-12. (Note: Previous experience with microcomputers is strongly recommended. Does not count toward a Computer Science major. Credit toward graduation will not be given if this course is taken after completing 6sh or more of COSC courses.)

#### **COSC 220 Applied Computer Programming**

3c-01-3sh

**Prerequisite:** COSC 110 or equivalent

Structured programming principles and techniques, as implemented through the ANS COBOL language; program design using top-down techniques; program and project documentation; introduction to sequential file algorithms.

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#### **COSC 250 Introduction to Numerical Methods**

3c-01-3sh

Prerequisites: COSC 110, MATH 122 or 123 or 127

Algorithmic methods for function evaluation, roots of equations, solutions to systems of linear equations, interpolation, curve fitting, numerical differentiation and integration; errors in computation. Introduction to FORTRAN90 programming and introduction to the use of a mathematical software package to graph functions.

#### **COSC 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

#### **COSC 300 Assembly Language Programming**

3c-01-3sh

**Prerequisite:** COSC 110 or equivalent

An examination of structure and languages of machines; representation of data, addressing techniques, symbolic coding, assemblers, macros, etc.; problem solution using assembly language

#### **COSC 304 Interactive Internet Programming with Java**

3c-01-3sh

**Prerequisite:** COSC 110 or equivalent

An introduction to interactive Internet programming using Java. The focus is on writing platform-independent multimedia applications that are useable across the Internet. Uses a write-once, run-anywhere approach while providing adequate security. Covers event-based processing, multithreading, MIME file handling, exception handling, sandbox security, networking, and component architectures.

#### **COSC 310 Data Structures**

3c-01-3sh

Prerequisite: COSC 110

Basic concepts of data; storage systems and structures; lists, arrays, strings, hashing techniques; searching and sorting techniques; data structures in programming languages; string processing. Programming in an object-oriented language.

# **COSC 315 Large File Organization and Access**

3c-01-3sh

**Prerequisite:** COSC 220

The organization of large computer files for business systems, information systems, and other applications. Use of advanced COBOL for efficient file access. Evaluation of file access methods and directory organization. Introduction to random file algorithms and integrated file systems.

#### **COSC 319 Software Engineering Concepts**

3c-01-3sh

**Prerequisite:** COSC 315 or permission of instructor

Includes the collection of tools, procedures, methodologies, and accumulated knowledge about the development of the software life cycle; current methodologies, tools, and techniques being applied to each phase will be discussed in depth with localized exercises given to reinforce learning of concepts.

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#### **COSC 320 Software Engineering Practice**

1c-2d-3sh

**Prerequisite:** COSC 319 or permission of instructor

Planning, design, and implementation of large software systems using software engineering techniques. Students work in project teams on real or realistic software development projects. Credit for either COSC 320 or 493 may count toward computer science major requirements for graduation but not both; the other course semester hours are free electives.

#### **COSC 345 Data Communications**

3c-01-3sh

Prerequisites: COSC 110 or 220; MATH 121 or 123; MA214 or 216 or 217; or equivalents

Communication of digital data between computers and to and from terminals and other peripherals; computer networks; small design projects or term paper.

#### **COSC 352 LAN Design and Installation**

3c-01-3sh

**Prerequisite:** IFMG 350 or OSYS 313 or any COSC course numbered 300 or higher

A study of fundamental local area networking concepts. Detailed study of the basics of local area network (LAN) technology. Comparative study of commercially available LAN systems and products. Features a hands-on laboratory implementation of a LAN. Cross-listed as IFMG 352. Either course may be substituted for the other for D/F repeats but may not be taken for duplicate credit.

#### **COSC 354 Testing and Controlling LANs**

3c-01-3sh

Prerequisite: COSC 352 or IFMG 352 or equivalent

Explores local area network (LAN) topologies and their associated protocols. Introduces ways of interconnecting, securing, and maintaining LANs. Provides students with hands-on experience in the interconnection of multiple LANs. Also presents a hands-on approach to design, testing, and administration of interconnected LANs. Cross-listed as IFMG 354. Either course may be substituted for the other for D/F repeats but may not be taken for duplicate credit.

## **COSC 355 Computer Graphics**

2c-11-3sh

**Prerequisites:** COSC 310 and junior status

The use of computer graphics hardware and software. An overview of current applications and experience with representative software will introduce current practice. Foundations in primitives, geometry, and algorithms of passive computer graphics are the principal focus of the course. A brief introduction to interactive computer graphics will be included.

## **COSC 360 IBM Job Control Language**

1c-0l-1sh

**Prerequisite:** COSC 220 or permission of instructor

Detailed study of the job control language (JCRLG) of the IBM OS operating system; comparison of OS with the locally available DEC operating system, VAX VMS.

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## **COSC 362 UNIX Systems**

3c-01-3sh

**Prerequisite:** COSC 310 or permission of instructor

An introduction to the features, syntax, applications, and history of UNIX. Coverage includes utilities, system administration, development environments, and networking concerns including distributed systems, client-server computing, and providing Web services.

#### **COSC 380 Seminar on the Computer Profession**

0c-1d-1sh

**Prerequisite:** Permission (See text below)

Reading, review, and discussion of the current literature of computer science and industry trade journals; effective oral presentations; employment prospects. Should be taken the semester before an internship or the first semester of the senior year. Should not be taken at the same time as COSC 480.

#### **COSC 405 Artificial Intelligence**

3c-01-3sh

**Prerequisite:** COSC 310

An introduction to the field of artificial intelligence, i.e., the study of ideas that enable computers to process data in a more intelligent way than conventional practice allows. Covers many information representation and information processing techniques. Students will explore the underlying theory including matching, goal reduction, constraint exploration, search, control, problem solving, and logic.

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#### COSC 410 Processor Architecture and Microprogramming

3c-01-3sh

Prerequisites: COSC 300 and 310

The logical description of computer processor structure (architecture), with emphasis on the microprogramming approach. Project assignments using minicomputer.

## **COSC 419 Software Development with Ada**

3c-01-3sh

Prerequisite: COSC 310

An introduction to the Ada programming language as a tool of the software engineer. Projects will use the advanced programming constructs resident in Ada, including packages, multi-tasking, generic units, exception handlers, and concurrent programming.

### **COSC 420 Modern Programming Languages**

3c-01-3sh

Prerequisites: COSC 220 and 310

A comparative study of the properties and applications of a range of modern higher-level programming languages,

including Ada, APL, C, LISP, LOGO, Pascal, PROLOG, and SNOBOL. Comparison with older languages such as ALGOL, BASIC, COBOL, FORTRAN, and PL/I.

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#### **COSC 424 Compiler Construction**

3c-01-3sh

Prerequisites: COSC 300 and 310

Relates the formal concepts of automata and language theory to the practicality of constructing a high-level language translator. The structures and techniques used in lexical analysis, parsing, syntax directed translation, intermediate and object code generation, and optimization are emphasized.

# COSC 430 Introduction to Systems Programming

3c-01-3sh

Prerequisites: COSC 300 and 310

Concepts and techniques of systems programming with an emphasis on assembly, linking, loading, and macro processing for user programs. Overview of higher-level language translation and system control. Programming and research projects.

#### **COSC 432 Introduction to Operating Systems**

3c-01-3sh

**Prerequisites:** COSC 300, COSC 310 or equivalents

An introduction to the principles of operating system design and implementation. Topics include interrupt service, process states and transitions, spooling, management of memory and disk space, virtual storage, scheduling processes and devices, and file systems.

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#### **COSC 441 Data Base Management**

3c-01-3sh

Prerequisite: COSC 315

A review of database concepts. Detailed study of database management approaches. Comparative study of commercially available database management systems. Project on the locally available database systems.

## **COSC 444 Productivity Tools and Fourth Generation Language**

3c-01-3sh

Prerequisite: COSC 441 or IFMG 450

Develop an understanding of productivity issues and how Fourth Generation Languages (4GL) improve productivity as contrasted with 3GLs. Advances in the programming paradigm such as event-driven programming, objects, reusability, graphical user interface (GUI) design and development, information systems based on relational databases, and client/server technology are addressed. Students will gain a practical experience with these concepts through an in-depth study of Visual Basic and the development of a GUI interface to a relational database using Visual Basic.

#### **COSC 450 Applied Numerical Methods**

3c-01-3sh

**Prerequisites:** COSC 250, MATH 241, or equivalents

Polynomial approximations using finite differences, with applications in numerical integration and differentiation. Numerical solution of initial value ordinary differential equations. The APL language will be introduced and used, along with FORTRAN, in programming selected algorithms.

## **COSC 451 Numerical Methods for Supercomputers**

3c-01-3sh

**Prerequisites:** MATH 121 and 122, or MATH 123 or 127, MATH 171, COSC 250

Supercomputers make use of special computer architectures—vector and parallel processors—in order to achieve the fastest processing speed currently available. Students will be introduced to these features and will learn how numerical

algorithms can be constructed to exploit supercomputers' capabilities. Students will gain practical experience in programming for the Cray, YMP, in incorporating existing scientific software packages into user-written programs, in submitting remote jobs to the Pittsburgh Supercomputer Center, and in producing animated graphical output to summarize the typically large volume of output data generated by large scientific programs. (Also offered as MATH 451; may not be taken for duplicate credit)

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### **COSC 460 Theory of Computation**

3c-01-3sh

**Prerequisites:** COSC 310 or consent of instructor

Formal methods for describing and analyzing programming languages and algorithms. Backus-Naur forms; productions; regular expressions; introduction to automata theory; Turing machines; recent concepts in algorithm theory computability.

# **COSC 480 Seminar on Technical Topics**

0c-11-1sh

**Prerequisites:** See text below

Reading, review, and discussion of the current literature of computer science and industry professional and technical journals; oral presentations. Should be taken the last semester of the senior year. Should not be taken at the same time as COSC 380.

#### **COSC 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

A seminar in advanced topics of computer science; content will vary depending on interests of instructor and students. May be repeated for additional credit. Special Topics numbered 481 are primarily for upper-level undergraduate students.

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#### **COSC 482 Independent Study**

var-1-4sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval based on academic appropriateness and availability of resources.

#### **COSC 485 Independent Study**

var-12sh

**Prerequisites:** Permission of a computer science faculty member who agrees to supervise the student's project. Arrangements for selection of a specific topic must be made.

#### **COSC 493 Internship in Computer Science**

var-12sh

**Prerequisites:** COSC 300, 310, 315, 319, 380, other courses depending on type of internship position desired, completion of application, and selection by committee

Positions with participating companies provide students with paid experience in computer science under the supervision of the companies and faculty. Requirements include three on-site consultations, two university consultations, completion of progress reports, oral presentation, and a final cumulative paper. Offered only to students during the second semester and summer of the junior year or the summer and the first semester of the senior year. No more than 4sh of COSC 493 may be applied toward the semester-hour requirements for the major in Computer Science.

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# **Information Management**

Department of Management Information Systems and Decision Sciences Eberly College of Business and Information Technology

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

<u>IFMG 101 IFMG 201 IFMG 205 IFMG 251 IFMG 255 IFMG 261 IFMG 281 IFMG 300 IFMG 350 IFMG 352 IFMG 354 IFMG 370 IFMG 372 IFMG 382 IFMG 450 IFMG 451 IFMG 455 IFMG 470 IFMG 480 IFMG 481 IFMG 482 IFMG 485 IFMG 493</u>

Note: All courses at the 300 and 400 level are open only to students with junior or senior standing. All students, regardless of major or program affiliation, must meet course prerequisite requirements in order to enroll for a given course. Business majors (except those majoring in Business Education) who have not achieved Junior Standing are normally not permitted to enroll in 300- or 400-level courses.

## **IFMG 101 Microbased Computer Literacy**

3c-01-3sh

An introductory course designed to provide students with a fundamental understanding of computers. Familiarizes students with the interaction of computer hardware and software. Emphasis is placed on the application of microcomputers, the use of productivity software (word processing, spreadsheet management, file and database management), and the social and ethical aspect of the impact of computers on society.

**Note:** This course is cross-listed as <u>BEDU 101</u> and <u>COSC 101</u>. Any of these courses may be substituted for each other and may be used interchangeably for D or F repeats but may not be counted for duplicate credit.

# IFMG 201 Internet and Multimedia

3c-01-3sh

Prerequisite: COSC/IFMG 101 or prior exposure to word processing and electronic mail

The major focus will be on the evaluation of information and multimedia resources available on electronic networks when doing research in an area of one's choice. This information literacy course is designed for students to gain a more in-depth understanding of the information resources available electronically and of how to utilize them more effectively in communicating. Students will learn how to access and utilize these resources for two-way communications and support for decision making while incorporating selected elements in multimedia presentations of their own design. (BEDU/COMM/COSC/IFMG/LIBR 201 may be used interchangeably for D or F repeats and may not be counted for duplicate credit.)

#### **IFMG 205 Foundations of MIS**

3c-01-3sh

Prerequisite: <a href="Mailto:COSC/IFMG 101">COSC/IFMG 101</a>

An introductory course designed to provide students with a fundamental understanding of MIS. Systems theory, quality, decision making, and the organizational role of information systems are introduced. Information technology, including basic programming skills, is stressed. Concepts of organization, information system growth, telecommunications, and re-engineering are introduced.

#### IFMG 251 Business Systems Analysis and Design

3c-01-3sh

Prerequisite: ACCT 201 and IFMG 205

Involves teaching the tools and techniques required for the analysis and the design of business systems. The major steps in the system's development life cycle are presented along with practical applications from the major subsystems of typical business organizations. Issues related to personnel, hardware, software, and procedures are explored as students work individually and in project teams to solve typical business application problems.

# IFMG 255 Business Applications in COBOL

3c-01-3sh

Prerequisites: ACCT 201 and IFMG 241 or 300

Introduces the student to the COBOL programming language as it applies to business organizations and their applications. Structured COBOL concepts and methods are taught as the student learns how to solve business problems using computers. The student will be involved using files, reports, and tables to produce a variety of outputs utilized in operating and managing business activities.

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# IFMG 261 Micro Database Systems

3c-01-3sh

Prerequisite: COSC/IFMG 101

The fundamentals of database management including different database models and database design issues will be examined. Emphasizes the use of various tools of relational database software, including report generators, screen builders, and query facilities. Design techniques and software tools will be used in creating a database application. Intended as an elective for business students who are not majoring in MIS. MIS majors will not be allowed to count this course towards satisfying their graduation requirements.

# **IFMG 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

#### IFMG 300 Information Systems: Theory and Practice

3c-01-3sh

Prerequisites: COSC/IFMG 101, ACCT 202

Includes basic MIS concepts, fundamentals, and practices. Broad areas of coverage are principles, the computer as a problem-solving tool, Computer-Based Information Systems (CBIS), organizational information systems, and Information Systems management.

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#### IFMG 350 Business Systems Technology

3c-01-3sh

Prerequisite: COSC 220 or IFMG 255

Student is taught fundamental and advanced concepts of computer hardware and a procedure for evaluation and acquisition of computer hardware.

## IFMG 352 LAN Design and Installation

3c-01-3sh

Prerequisite: IFMG 350 or OSYS 313 or any COSC course numbered 300 or higher

A study of fundamental local area networking concepts. Detailed study of the basics of local area network (LAN) technology. Comparative study of commercially available LAN systems and products. Features a hands-on laboratory

implementation of a LAN. Cross-listed as COSC 352. Either course may be substituted for the other for D/F repeats but may not be taken for duplicate credit.

# **IFMG 354 Testing and Controlling LANs**

3c-01-3sh

Prerequisite: COSC 352 or IFMG 352 or equivalent

Explores local area network (LAN) topologies and their associated protocols. Introduces ways of interconnecting, securing, and maintaining LANs. Provides students with hands-on experience in the interconnection of multiple LANs. Also presents a hands-on approach to design, testing, and administration of interconnected LANs. Cross-listed as COSC 354. Either course may be substituted for the other for D/F repeats but may not be taken for duplicate credit.

#### IFMG 370 Advanced COBOL

3c-0l-3sh

Prerequisite: <u>COSC 220</u> Corequisite: <u>IFMG 350</u>

A continuation of introductory COBOL with an emphasis on structured methodology of program design, development, testing, implementation, and documentation of common business-oriented applications. It includes a heavy emphasis on the techniques and concepts of the table processing, file organization, and processing alternatives, internal and external sorting, subroutines, and application development for both the batch and on-line systems. Micro Focus COBOL software is utilized.

#### **IFMG 372 Microcomputer Applications**

3c-01-3sh

**Prerequisites:** IFMG 350, COSC 220, ACCT 201, or by permission

Demonstrates how to use the microcomputer in business and how to provide technical assistance to users of the microcomputer. Emphasis will be placed on integrating software and interfacing with mainframe computers or with minicomputers. Topics covered include microcomputer hardware, microcomputer operating systems, local area networks, and microcomputer software tools.

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#### **IFMG 382 Auditing for EDP Systems**

3c-01-3sh

Prerequisites: ACCT 201, COSC 220, or IFMG 255

Emphasizes the responsibility of the systems analyst to include in systems design the proper management and financial controls and audit trails in business information systems. The design of controls for application programs and systems is covered. Audit software packages are examined.

## IFMG 450 Data Base Theory and Application

3c-01-3sh

**Prerequisites:** IFMG 370, upper-division students only

After learning data structures, the student will then apply them to CODASYL compatible database management systems, TOTAL, and IBM's database management system. Student must develop and use a database as part of requirement. [Course revision in process]

#### **IFMG 451 Systems Analysis**

3c-01-3sh

Prerequisites: IFMG 350 and IFMG 255 or COSC 220

Develops an understanding of concepts and techniques involving conventional and structured approaches to analyzing problems of business information systems and systems definition feasibility, as well as quantitative and evaluative techniques of business information systems analysis.

## IFMG 455 Data Warehousing and Mining

3c-01-3sh

Prerequisites: IFMG 450 or IFMG 261 or COSC 441, and MATH 214 or 216

Introduces students to the strategies, technologies, and techniques associated with this growing MIS specialty area. Composed of two main parts. In the first part, students will learn the basic methodology for planning, designing, building, using, and managing a data warehouse. In the second part, students will learn how to use different data mining techniques to derive information from the data warehouse for strategic and long-term business decision making.

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#### IFMG 470 Systems Design

3c-0l-3sh

**Prerequisite: IFMG 451** 

Students learn tools and techniques for design of a business system. Along with classroom discussions of principles and techniques for analyzing, designing, and constructing the system, students will formulate system teams to analyze the problems of an existing business information system, to design an improved system, and to control implementation of a new system.

## IFMG 480 Distributed Business Information Systems

3c-01-3sh

**Prerequisite:** IFMG 350

A study of the techniques involved in planning, design, and implementation of distributed processing systems. Distributed marketing, financial, and corporate accounting systems are included.

## **IFMG 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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#### **IFMG 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through adviser, faculty member, department chairperson, dean, and provost's office Individual research and analysis of contemporary problems and issues in a concentrated area of study under the guidance of a senior faculty member. Approval is based on academic appropriateness and availability of resources.

#### **IFMG 485 Seminar: IS Current Topics**

3c-01-3sh

Prerequisites: <u>IFMG 300</u>, senior standing

Current topics and issues in information systems in the business environment are addressed through systematic coverage of current literature and/or electronic sources. Practitioner publications and academic journals integrate emerging technologies and information issues with identification of their impact on the management of business organizations. Not a capstone requirement but a vehicle to explore a variety of topics in the field.

#### IFMG 493 Internship in MIS

var-3-12sh

**Prerequisites:** IFMG 370, consent of department chairperson and dean

Positions with participating business, industry, or governmental organizations provide the student with experience in systems analysis. **Note:** Internship IFMG 493 can be taken, if the student qualifies, as a general elective. It does not fulfill the major-area elective requirement.

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## Indiana University of Pennsylvania

2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# **English**

## Department of English College of Humanities and Social Sciences

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

ENGL 100 ENGL 101 ENGL 121 ENGL 122 ENGL 150 ENGL 202 ENGL 208 ENGL 210 ENGL 211 ENGL 212 ENGL 213 ENGL 214 ENGL 215 ENGL 216 ENGL 217 ENGL 220 ENGL 221 ENGL 225 ENGL 281 ENGL 301 ENGL 302 ENGL 303 ENGL 304 ENGL 305 ENGL 306 ENGL 307 ENGL 310 ENGL 311 ENGL 312 ENGL 313 ENGL 314 ENGL 315 ENGL 316 ENGL 317 ENGL 318 ENGL 319 ENGL 320 ENGL 322 ENGL 323 ENGL 324 ENGL 325 ENGL 326 ENGL 329 ENGL 330 ENGL 332 ENGL 333 ENGL 334 ENGL 335 ENGL 336 ENGL 337 ENGL 338 ENGL 344 ENGL 348 ENGL 349 ENGL 354 ENGL 356 ENGL 357 ENGL 385 ENGL 386 ENGL 387 ENGL 390 ENGL 391 ENGL 393 ENGL 394 ENGL 395 ENGL 396 ENGL 401 ENGL 420 ENGL 422 ENGL 430 ENGL 432 ENGL 434 ENGL 436 ENGL 436 ENGL 461 ENGL 462 ENGL 480 ENGL 481 ENGL 482 ENGL 493

#### **ENGL 100 Basic Writing**

3c-01-3sh

Designed to develop the basic English skills necessary for clear and effective communication. Reserved for selected students. Does not meet General Education English or Liberal Studies writing requirements.

#### **ENGL 101 College Writing**

3c-var-4sh

**Prerequisite:** ENGL 100, where required by placement testing

Normally to be taken the first semester at IUP. Courses use readings in the nature and history of language, semantic and linguistic analysis, and problems in rhetoric and other approaches to composition. Seven theme-length expository papers (or the equivalent) are written, in addition to shorter exercises and a written final examination.

#### **ENGL 121 Humanities Literature**

3c-01-3sh

**Prerequisite:** ENGL 101

Introduces students to literature of various genres through a careful analysis of poetry, fiction, and drama. Includes literature of various time periods, nationalities, and minorities.

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#### **ENGL 122 Introduction to Literary Analysis**

3c-01-3sh

**Prerequisite:** ENGL 101

Acquaints students with the literary genres (especially fiction, poetry, and drama) by means of examples of each and provides them with some of the various critical approaches to the interpretation of literature so that they may gain the ability to apply them. At the conclusion of the course, students are expected to be able to read literature perceptively and to write critical papers about it. (Offered as EN210 prior to Spring, 1998)

## **ENGL 150 English for Foreign Students**

3c-01-3sh

Provides international students with an opportunity to improve their ability to speak and write English before they take <u>ENGL 100</u> and <u>ENGL 101</u>. The emphasis is on individualized exercises and assignments. This course carries graduation credit but does not meet Liberal Studies English requirements.

## **ENGL 202 Research Writing**

3c-01-3sh

**Prerequisites:** ENGL 101, sophomore standing

Teaches students to read, analyze, and evaluate nonfiction sources and to present the results of their analysis in clear, organized, carefully documented research papers. The focus of reading and research in each section will be determined by the instructor.

#### ENGL 208 The Art of the Film

3c-01-3sh

Concentrates on the film as an artistic medium. Eight to twelve motion pictures are shown during semester and are analyzed in class discussions.

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#### **ENGL 210 British Literature to 1660**

3c-0l-3sh

**Prerequisites:** ENGL 101, 122, or permission

Surveys British literature from its beginnings to about 1660, acquainting students with the experience of reading many of the primary materials (whole works whenever possible or full, free-standing parts) and provides them with background information concerning the development and flowering of the various genres, the dominant ideas of each period, and the social and cultural context of the separate works. (Offered as EN211 prior to Spring, 1998)

#### ENGL 211 British Literature 1660-1900

3c-01-3sh

**Prerequisites:** ENGL 101, 122, or permission

Surveys British literature from about 1660 to the beginning of the twentieth century, acquainting students with the experience of reading many of the primary materials (whole works whenever possible or full, free-standing parts) and providing them with background information concerning the development and flowering of the various genres, the dominant ideas of each period, and the social and cultural context of the separate work. (Offered as EN212: English Literature prior to Spring, 1998)

#### **ENGL 212 American Literature: Beginnings to 1900**

3c-01-3sh

**Prerequisites:** ENGL 101, 122, or permission

Provides an understanding of American literature from its beginning to about 1900. The course will concentrate primarily upon a relatively small number of major works, each of which will help to illustrate the "spirit of the age" it represents. (Offered as EN213: American Literature: Beginnings to the Present prior to Spring, 1998)

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#### **ENGL 213 British and American Literature Since 1900**

3c-01-3sh

**Prerequisites:** ENGL 101, 122, or permission

A survey of major authors and works in British and American literature since 1900. Begins with the shift from Victorianism and late nineteenth-century literature into modernism, as exemplified by writers such as Woolf, Hemingway, and O'Neill, and continues with postmodernism and contemporary literature.

#### **ENGL 214 The Novel**

3c-01-3sh

Prerequisites: ENGL 101, 122, or permission

Surveys the development of the novel from Cervantes' Don Quixote to the present with emphasis on major writers and

forms in English. Includes consideration of teaching the novel.

#### **ENGL 215 Poetry**

3c-01-3sh

Prerequisites: ENGL 101, 122, or permission

A study in appreciation of poetry, with special attention to the technique of the poet and structure of poetry. Includes consideration of teaching poetry.

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#### **ENGL 216 Short Fiction**

3c-01-3sh

**Prerequisites:** ENGL 101, 122, or permission

A study of the development of the short story from the middle of the nineteenth century to the present with attention to form, structure, and types of the story. Includes consideration of teaching short fiction.

#### **ENGL 217 Drama**

3c-01-3sh

**Prerequisites:** ENGL 101, 122, or permission

The study of selected plays from various periods in an attempt to understand the function of drama. Includes consideration of teaching drama.

## **ENGL 220 Advanced Composition I**

3c-01-3sh

**Prerequisite:** ENGL 202

Primarily seeks to improve writing style, particularly in the more utilitarian forms, such as magazine article and personal essay.

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## **ENGL 221 Creative Writing**

3c-01-3sh

**Prerequisite:** ENGL 202

A seminar course in which students are expected to produce a substantial body of written work in one or more of the creative genres, the particular kind of writing chosen with regard to the special interests and abilities of each student.

#### **ENGL 225 Introduction to Literature by Women**

3c-01-3sh

**Prerequisites:** ENGL 121 or 122 and ENGL 202

Major trends and motifs across genres (fiction, nonfiction, poetry, autobiography) which reflect themes and subjects of continuing interest to women writers. The intersection of genre with race, ethnicity, and social class will be of particular significance. (Offered as EN384 prior to Spring, 1998)

#### **ENGL 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

### **ENGL 301 British Medieval Literature**

3c-01-3sh

Prerequisites: ENGL 202, 210, 211, 212, 213

Examines particular literary traditions in England from the eleventh to the fifteenth centuries, excluding Chaucer. The

purpose will be to acquaint students with the diversity of materials, ranging from prose to verse, oral to written, and serious to comic. Most texts will be taught in the original Middle English, accompanied by side glosses. Translations will be used where appropriate. Rather than survey the period comprehensively, the purpose here is to focus closely on particular aspects or writers as selected by the instructor.

#### **ENGL 302 Renaissance Literature**

3c-01-3sh

Prerequisites: ENGL 202, 210, 211, 212, 213

Examines major works and genres in Elizabethan literature such as pastoral and tragedy and key fiction writers, dramatists, and poets during 1558-1603. Rather than survey the period comprehensively, the purpose here is to focus closely on a specific literary period and on the writers of this period as selected by the instructor. (Offered as EN361: The Renaissance prior to Spring, 1998)

## **ENGL 303 British Enlightenment Literature**

3c-01-3sh

Prerequisites: ENGL 202, 210, 211, 212, 213

British Enlightenment Literature refers to the imitation of the Greek and Roman authors of antiquity. Begins with the assumptions and goals of neoclassical literature and integrates the intellectual debates and contemporary politics (patriarchy, nascent capitalism, empire, slavery, class divisions) that flourished alongside of (and that shaped the emergence of) new genres (the slave narrative, the novel, gothic tales, the periodical essay). Rather than survey the period comprehensively, the purpose here is to focus closely on particular aspects or writers as selected by the instructor.

#### **ENGL 304 British Romantic Literature**

3c-01-3sh

Prerequisites: ENGL 202, 210, 211, 212, 213

Emphasizes the relationship between literature and its milieu. Focuses primarily on English Romantic Poets but considers development in Germany, France, and America and examines its continuing manifestations in literature, culture, and politics. Rather than survey the period comprehensively, the purpose here is to focus closely on a specific literary period and on the writers of this period as selected by the instructor. (Offered as EN360: Romanticism prior to Spring, 1998)

#### **ENGL 305 British Victorian Literature**

3c-01-3sh

**Prerequisites:** ENGL 202, 210, 211, 212, 213

Examines literary works against a background of rapidly changing social, economic, religious, and political forces. Counterculture movements, such as the Pre-Raphaelites, will be examined against "high Victorianism" to develop a sense of the tremendous intellectual and political energy of the period. Roots of recent concerns such as feminism, political literalism, and capitalism will be explored to help us better understand our own as well as the Victorian age. Rather than survey the period comprehensively, the purpose here is to focus closely on particular aspects or writers as selected by the instructor.

#### **ENGL 306 Modern British Literature**

3c-01-3sh

Prerequisites: ENGL 202, 210, 211, 212, 213

Examines major works and trends in modern British literature, such as modernism or key fiction writers, dramatists, or poets during the first half of the twentieth century. Rather than survey the period comprehensively, the purpose here is to focus closely on particular aspects or writers as selected by the instructor.

## **ENGL 307 Contemporary British Literature**

3c-01-3sh

Prerequisites: <u>ENGL 202, 210, 211, 212, 213</u>

Examines major works and trends in contemporary British literature, such as late modernism, postmodernism, the age of diminishment, or key novelists, dramatists, and/or poets from the period 1945 to the present. Rather than survey the

period comprehensively, the purpose here is to focus closely on particular aspects or writers as selected by the instructor.

#### **ENGL 310 Public Speaking**

3c-01-3sh

**Prerequisite:** ENGL 101

Fundamental principles of public speaking, audience analysis, interest and attention, and selection and organization of speech material.

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#### **ENGL 311 Oral Interpretation**

3c-01-3sh

**Prerequisite:** ENGL 101

Emphasizes understanding and appreciation of literature through developing skill in reading aloud.

#### **ENGL 312 Speech--Persuasion**

3c-01-3sh

Prerequisites: ENGL 202, 310

Advanced study of problems involved in influencing an audience.

#### **ENGL 313 The Rhetorical Tradition**

3c-01-3sh

Prerequisites: ENGL 101, 310

Survey of rhetorical theory from Greek and Roman through modern times.

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## ENGL 314 Speech and Communication in the Secondary English Classroom

3c-01-3sh

Prerequisites: ENGL 122, 202

Offers students practical and theoretical approaches to relationships between oral and written communication. The course is performance based (involving a variety of communication activities) and knowledge based (involving study of research on language arts relationships). Emphasis is given to integration of the four language arts for improving teachers' own communication skills as well as those of their students.

#### **ENGL 315 American Literature to 1820**

3c-01-3sh

**Prerequisites:** ENGL 202, 210, 211, 212, 213

The beginnings of American literary cultures from sixteenth-century pre-Columbian indigenous contacts with European explorations, through diverse colonializations (Hispanic, French, and British) including the importation of African slaves, up to the American Revolution and emergent U.S. literary nationalism in the first decades of the nineteenth century. Rather than survey the period comprehensively, the purpose here is to focus closely on particular aspects or writers as selected by the instructor.

## **ENGL 316 American Literature 1820-1880**

3c-01-3sh

**Prerequisites:** ENGL 202, 210, 211, 212, 213

Examines major works and trends in U.S. literature, from the Federalist, Romantic, and/or Realistic periods. Rather than survey the period comprehensively, the purpose here is to focus closely on particular aspects or writers as selected by the instructor.

#### ENGL 317 American Literature 1880-1940

3c-01-3sh

Prerequisites: ENGL 202, 210, 211, 212, 213

Examines representative U.S. writers during 1880-1940. Includes traditional figures as well as writers who have recently entered the canon. Rather than survey the period comprehensively, the purpose here is to focus closely on particular aspects or writers as selected by the instructor.

#### **ENGL 318 Literature for Adolescents**

3c-01-3sh

**Prerequisites:** ENGL 101, 122, or permission, English Education major

Surveys poetry, drama, and fiction with which the adolescent is familiar through school work and personal reading.

#### **ENGL 319 American Literature 1940-present**

3c-01-3sh

Prerequisites: ENGL 202, and at least two courses from 210, 211, 212, 213

Additional prerequisites for B.A. English majors: 210, 211, 212, 213

Focuses on various movements, themes, genres, and authors writing in the United States since 1940. Not a survey course; each section will develop an extended treatment of a particular topic selected by the instructor. Emphasizes writing by living writers to develop an understanding of the diversity, formally and thematically, of current U.S. literary production across genders and ethnicities.

#### **ENGL 320 Advanced Composition II**

3c-01-3sh

Prerequisites: ENGL 202, 220

A workshop and tutorial atmosphere for students who intend to write or teach writing.

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## **ENGL 322 Technical Writing I**

3c-01-3sh

**Prerequisite:** ENGL 202

Focuses on helping the student to acquire and to apply communication skills essential to the technical and professional writer.

#### **ENGL 323 Teaching Literature and Reading in the Secondary School**

3c-01-3sh

Prerequisites: ENGL 122, 202

Introduces students to the theory and research on teaching literature and reading in the secondary school. Reviews reader-response literary theory and classroom-based research on teaching literature. Also reviews socio-psycholinguistic reading theory and classroom-based research on teaching reading.

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#### **ENGL 324 Teaching and Evaluating Writing**

3c-01-3sh

**Prerequisites:** ENGL 122, 202, English Education major or permission

A study of modern approaches to the teaching of writing, including current theories on the composing process, as well as instruction in evaluating, including holistic scoring. Includes practice in writing.

#### **ENGL 325 Creative Writing: Poetry**

3c-01-3sh

**Prerequisites:** ENGL 221, permission of instructor based on samples of student's work

A writing workshop for students who wish to focus intensively on the writing and revision of poetry and on developing an audience for one's works.

## **ENGL 326 Creative Writing: Fiction**

3c-01-3sh

**Prerequisites:** ENGL 221, permission of instructor based on samples of student's work

A writing workshop for students who wish to write fiction under the guidance of an instructor. Focuses intensively on the writing and revision of prose fiction and on developing an audience for one's works.

### **ENGL 329 The History of the English Language**

1c-0l-1sh

Prerequisite: **ENGL 202** 

Studies historical development of the English language, as a basis for a better understanding of modern American English.

#### **ENGL 330 The Structure of English**

3c-01-3sh

**Prerequisite:** ENGL 202

An introduction to the fundamentals of language study with equal emphasis on the sound, word, sentence, meaning, and discourse patterns of English. Educationally relevant topics, such as applications of linguistics to the teaching of English language and literature, varieties of grammar, and linguistic descriptions of styles and registers are an integral part of the course. Course is a prerequisite for <u>EDUC 452</u>: Teaching of English in the Secondary School.

#### **ENGL 332 Advanced Film**

3c-01-3sh

Prerequisites: ENGL 101, 208

Offers a close examination of classic and contemporary films and film theory from a variety of critical perspectives: spectatorship, cinematic authorship, feminism, historiography, genre, and cultural studies. Pays special attention to the treatment of women and African-Americans in film.

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#### **ENGL 333 Psycholinguistics**

3c-0l-3sh

**Prerequisite:** ENGL 202

Concerns the interrelation between language system and behavior and various factors of human psychology. Surveys developments since the 1940s, including relationships between language and perception, biology, memory, meaning, and cognition, as well as oral and written behavior. Students of language and literature may improve their assumptions about how human beings use language.

#### **ENGL 334 ESL Methods and Materials**

3c-01-3sh

Prerequisite: Junior standing or permission of the instructor

Prerequisite: Junior standing or permission of the instructor An introduction to English as a Second Language theory and practice. Aims: (1) general understanding of current theory and methods of teaching ESL; (2) ability to select appropriate, and adapt existing, materials for elementary and high school ESL students. Recommended for all English teachers who expect to have ESL students in their classes.

#### **ENGL 335 The Essay**

3c-0l-3sh

**Prerequisites:** ENGL 202, 210, 211, 212, 213

Focuses on the creation and development of the essay in English, its form and content, from its beginnings to the present. Students will begin by studying Francis Bacon, the first English essayist, and follow the evolution of the form to the present day.

## ENGL 336 Language, Gender, and Society

3c-01-3sh

Prerequisites: **ENGL 202**, junior standing

Investigates the various ways that language and gender interact and intersect in society. Examines such questions as: Does society use language to favor one sex over the other? Why is language a crucial component in formulating

constructs of masculinity and femininity? What stereotypes of gender-based language are promoted in our society? How can we analyze language to reveal disparate views and treatment of the sexes?

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#### ENGL 337 Myth

3c-01-3sh

Prerequisites: ENGL 202, and at least two courses from 210, 211, 212, 213

Additional prerequisites for B.A. English majors: 210, 211, 212, 213

Examines the nature and function of the mythic experience and explores the archetypal patterns of myths from various cultures. (Offered as EN370: Myth and Literature prior to Spring, 1998)

#### **ENGL 338 Oral Literature**

3c-01-3sh

Prerequisites: <u>ENGL 202</u>, <u>210</u>, <u>211</u>, <u>212</u>, <u>213</u>

Acquaints students with the nature of oral composition, the habits of thought that orality fosters, and the particular mode of awareness the oral dimension of literature demands of an audience (and awakens in a reader). At the conclusion of the course students should have an understanding of the formulaic nature of such purely oral forms as the ballad and the epic and an awareness of the manner in which orality patterns thought differently from writing, and they should be able to detect oral features and patterns in works of literature from cultures not primarily oral but containing a high "oral residue." (Offered as EN353: The Oral Dimension prior to Spring, 1998)

#### **ENGL 344 Ethnic American Literature**

3c-01-3sh

Prerequisites: ENGL 202, and at least two courses from 210, 211, 212, 213

Additional prerequisites for B.A. English majors: 210, 211, 212, 213

Concerned with ethnic U.S. experiences as expressed in poetry, fiction, drama, and autobiography. The topic will vary and be announced in advance. Examples include Asian-American, Hispanic, Irish-American, Jewish-American, and Native-American literatures.

#### **ENGL 348 African-American Literature**

3c-01-3sh

**Prerequisites:** ENGL 121 or 122 and 202

Primarily nineteenth- and twentieth-century African-American literature (poetry, fiction, nonfiction): includes works by Frederick Douglass, W.E.B. Du Bois, spirituals and folk poetry, Harriet B. Wilson, Jean Toomer, Richard Wright, Audrey Lorde, and Toni Morrison. Emphasis will be on historical context and an Afrocentric approach.

#### **ENGL 349 English Bible as Literature**

3c-01-3sh

Prerequisites: ENGL 121 or 122 and 202

Considers literary aspects of the English Bible by relating earlier translations to the Authorized Version of 1611 and by tracing some of the major influences of the King James Bible upon writers and speakers of modern English. Offers a close reading of the major narrative and poetic portions of the Old Testament.

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#### **ENGL 354 Classical Literature in Translation**

3c-01-3sh

Prerequisites: ENGL 122, 202

Masterpieces studied range from those of ancient Greece to Middle Ages. English literature and American literature excluded. (Offered as EN345 prior to Spring, 1998)

#### **ENGL 356 Film Theory**

3c-01-3sh

Prerequisites: ENGL 101, 208

An introduction to major film theories, studied in relation to representative films. Details the complex relationship between film production and film theory: i.e., how theorists have attempted to explain what appears on the screen, its impact, and its relation to "reality," and how filmmakers have responded to the works of theorists (with the two sometimes being the same). Goes far deeper into understanding film than ENGL 208, which focuses mainly on how film is constructed through aesthetic and institutional processes.

#### **ENGL 357 Major Figures in Film**

3c-0l-3sh

Prerequisites: ENGL 101, 208

Studies major artists and their contributions to the development of film as an art form from its beginnings to the present. Close analyses of directors, cinematographers, editors, screenwriters, or actors—as individuals or as representatives of a movement in film. Topics will vary from semester to semester; thus, one semester may concentrate on a specific director such as Alfred Hitchcock; another semester might study women (as directors, actresses, and editors); and yet another semester might study a collective movement such as film noir.

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#### **ENGL 385 Advanced Women's Literature**

3c-01-3sh

**Prerequisites**: ENGL 202 and for non-majors ENGL 225

Considers issues of genre and canon revision and why particular genres may have particular appeal for women writers. While many of our readings will be by "literary women," we will also consider works by women who were professionals in nonliterary disciplines.

#### **ENGL 386 Regional Literature in English**

3c-01-3sh

**Prerequisites:** ENGL 202, and at least two courses from 210, 211, 212, 213

Additional prerequisites for B.A. English majors: 210, 211, 212, 213

Examines the contributions of a particular region to national literature. The focus of the course might be any of the following: Appalachian writers, local color writers, New England writers, Southern writers, writers of the American West, or Canadian writers.

#### **ENGL 387 Irish Literature**

3c-01-3sh

Prerequisites: ENGL 202, 210, 211, 212, 213

An introduction to Irish literature since 1800, with particular emphasis on the Literary Revival in the early twentieth century. Key authors include Yeats, Joyce, Synge, O'Casey, Edgeworth, Somerville and Ross, Gregory, Beckett, and Heaney. The development of Irish writing will be examined within the contexts of Irish history, language, culture, and politics.

#### **ENGL 390 Literary Tour: Britain**

3c-01-3sh

ENGL 390 Literary Tour: Britain var-3sh Offered selected summers, for five weeks during the first or second summer session. Visits London, Stratford, and Cambridge or Oxford, as well as other places important in English literature.

#### ENGL 391 Selected Works from the Medieval Period

3c-01-3sh

Prerequisites: ENGL/FL121 or ENGL 122, ENGL 202

Comparative study of selected works of major importance per se and as representative of major themes of medieval European literature. Also listed as <u>FNLG 391</u>.

#### **ENGL 393 Romanticism**

3c-01-3sh

Prerequisites: ENGL/FL121 or ENGL 122, ENGL 202

Study of the principal authors and works of late eighteenth-century and early nineteenth-century Europe and the unique national characteristics of the Romantic movement in lyric, drama, and prose. Also listed as <u>FNLG 393</u>.

### **ENGL 394 Nineteenth-Century European Novel in Translation**

3c-01-3sh

Prerequisites: ENGL/FL121 or ENGL 122, ENGL 202

A survey of major nineteenth-century European novels in translation (excluding English), emphasizing the rise of realism and naturalism and the cultural, historical, social, and artistic relationships between the various national literatures. Also listed as FNLG 394.

## **ENGL 395 Selected Writers from Twentieth-Century Europe**

3c-01-3sh

Prerequisites: ENGL/FL121 or ENGL 122, ENGL 202

Comparative study of selected works of major importance per se or as representatives of major trends in twentieth-

century literature. Also listed as <u>FNLG 395</u>.

## **ENGL 396 The Literature of Emerging Nations**

3c-01-3sh

Prerequisites: ENGL/FL121 or ENGL 122, ENGL 202

A comparative study of a selection of literature written in major European languages but originating in the nations of the developing world. Works will be mainly prose fiction (although essay, theater, and poetry may be included) and reflect a diversity of geographical, cultural, and prior colonial circumstances. Also listed as FNLG 396.

## **ENGL 401 Advanced Literary Theory and Criticism**

3c-01-3sh

**Prerequisites:** ENGL 202, 210, 211, 212, 213

Acquaints students with major issues and problems in literary theory. Rather than survey the history of criticism and theory, this course focuses on modern and contemporary critical schools and methods. The purpose is to introduce students to a select group of influential theories and theorists and how such theories impact the way we read, study, and teach literature and cultural studies.

#### **ENGL 420 Special Writing Applications**

3c-01-3sh

**Prerequisite:** ENGL 220

Offers students who are well into their disciplines "forums" for advanced reading and writing about the cultural, professional, and personal uses of textual knowledge. Students will read, analyze, and compose essays that build meaning around disciplinary knowledge, independent reading, and personal or preprofessional experience. They will be encouraged to make connections between disciplinary knowledge and emerging knowledge or experience.

#### **ENGL 422 Technical Writing II**

3c-01-3sh

**Prerequisite:** ENGL 322

An advanced workshop/tutorial that provides intensive instruction in technical writing. Technical Writing II builds on the basics of audience, readability, proposals and reports, letters, memos, and resumes which are covered in Technical Writing I. Describes the writer's role in such areas as legal and ethical aspects of technical communication; planning, testing, reviewing, and evaluating documents; and proofreading and editing.

#### **ENGL 430 Major British Author**

3c-01-3sh

**Prerequisites:** ENGL 202, 210, 211, 212, 213

Examines major works of a single major author, including biographical, literary, and cultural contexts. Places the author within both intellectual/cultural history and literary developments. Major author studied in a particular semester to be announced in advance.

#### **ENGL 432 Chaucer**

3c-01-3sh

Prerequisites: <u>ENGL 202</u>, <u>210</u>, <u>211</u>, <u>212</u>, <u>213</u>

Studies Chaucer, his life, his language, the development of his literary style, and his art, with and through his major poetical works. (Offered as EN340 prior to Spring, 1998)

## **ENGL 434 Shakespeare**

3c-01-3sh

Prerequisites: ENGL 202, and at least two courses from 210, 211, 212, 213

Additional prerequisites for B.A. English majors: 210, 211, 212, 213

Studies Shakespeare's development as a poetic dramatist against background of Elizabethan stage; examines audience, textual problems, language imagery, and philosophy. (Offered as EN341 prior to Spring, 1998)

#### **ENGL 436 Major American Authors**

3c-01-3sh

Prerequisites: ENGL 202, 210, 211, 212, 213

Studies in the literary output of a major American author or authors against the background of the social and literary milieus in which the works were created. Specific subject or subjects to be announced by the instructor. (Offered as EN343 prior to Spring, 1998)

## **ENGL 460 Topics in Film**

3c-01-3sh

Prerequisites: ENGL 101, 208

Selected films dealing with a specific, advanced topic will be viewed and assessed to explore the different roles that film plays. Topic to be announced in advance

#### **ENGL 461 Topics in British Literature**

3c-01-3sh

**Prerequisites:** ENGL 202, 210, 211, 212, 213

Examines major works of a particular topic in British literature by focusing on its cultural and literary contexts. Topic to be announced in advance.

#### **ENGL 462 Topics in American Literature**

3c-01-3sh

Prerequisites: <u>ENGL 202, 210, 211, 212, 213</u>

Examines major works of a particular topic in American literature by focusing on its cultural and literary contexts.

Topic to be announced in advance.

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#### ENGL 480 Seminar: Studies in English and American Literature

var-3sh

Prerequisites: ENGL 101, 122, 202

Corequisites: ENGL 211, 212, 213, or permission

A seminar experience designed for advanced students. Students considering graduate work in English might well wish to enroll, but students with a variety of career goals—business, industry, law, government service—can take advantage of this opportunity to plan a schedule of independent study with the help of a faculty mentor.

#### **ENGL 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Vary from semester to semester covering such diverse topics as autobiography, science fiction, folklore, the political novel, black theater, etc.

#### **ENGL 482 Independent Study**

var-1-6sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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## **EN 493 Internship**

var-3-12sh

On-the-job training opportunities in related areas. Application and acceptance to internship program required.

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## Indiana University of Pennsylvania

2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# **Mathematics**

**Department of Mathematics College of Natural Sciences and Mathematics** 

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

MATH 100 MATH 101 MATH 105 MATH 110 MATH 117 MATH 121 MATH 122 MATH 123 MATH 124 MATH 127 MATH 128 MATH 151 MATH 152 MATH 171 MATH 214 MATH 216 MATH 217 MATH 219 MATH 227 MATH 241 MATH 271 MATH 272 MATH 281 MATH 317 MATH 320 MATH 342 MATH 350 MATH 353 MATH 355 MATH 363 MATH 364 MATH 366 MATH 371 MATH 417 MATH 418 MATH 420 MATH 421 MATH 422 MATH 423 MATH 424 MATH 425 MATH 427 MATH 445 MATH 446 MATH 447 MATH 451 MATH 452 MATH 453 MATH 454 MATH 455 MATH 456 MATH 457 MATH 458 MATH 459 MATH 460 MATH 465 MATH 471 MATH 476 MATH 477 MATH 480 MATH 481 MATH 482 MATH 490 MATH 493

## **MATH 100 Intermediate Algebra**

3c-01-3sh

**Note:** May not take MATH 100 after successfully completing MATH 105 or 110 or a calculus course without the written approval of the mathematics department chairperson.

Basic course in algebra including factoring, exponents and radicals, systems of linear equations, complex fractions, and inequalities. Designed for those students who lack the basic algebraic skills required in MATH 105 or 110. Will not meet Liberal Studies math requirements.

#### **MATH 101 Foundations of Mathematics**

3c-01-3sh

Introduces logic and mathematical way of analyzing problems; develops an appreciation for nature, breadth, and power of mathematics and its role in a technological society; introduces useful mathematics or mathematics related to student interest. Possible topics include logic, problem solving, number theory, linear programming, probability, statistics, intuitive calculus, introduction to computers, mathematics of finance, game theory.

#### MATH 105 College Algebra

3c-01-3sh

Prerequisite: MATH 100 or equivalent high school preparation

**Note:** May not take MATH 105 after successfully completing a calculus course or MATH 110 without the written approval of the mathematics department chairperson.

Prepares students for the study of calculus for business, natural, and social sciences. Topics include a detailed study of polynomial, exponential, and logarithmic functions. Designed primarily for students planning to take MATH 121 Calculus for Business, Natural, and Social Sciences.

#### **MATH 110 Elementary Functions**

3c-01-3sh

Note: May not take MATH 110 after successfully completing a calculus course without the written approval of the mathematics department chairperson.

For students not prepared to begin the study of calculus; topics include polynomial, exponential, logarithmic, and trigonometric functions.

## **MATH 117 Principles of Mathematics**

3c-01-3sh

An introduction to the nature of mathematics, designed specifically as a first course for mathematics education majors to experience several facets of mathematics including deduction, induction, problem solving, discrete mathematics, and theory of equations. Enrollment open to Secondary Mathematics Education majors only.

## MATH 121 Calculus I for Business, Natural, and Social Sciences

4c-01-4sh

**Note:** May not take MATH 121 after successfully completing another calculus course without the written permission of the mathematics department chairperson.

**Prerequisite:** MATH 105 or MATH 110 or equivalent high school preparation

Introduces non-Math major to analytic geometry, elementary functions (including logarithmic and exponential functions), central ideas of the calculus (limit, derivative, and integral), applications of derivatives to business, social, and natural sciences.

#### MATH 122 Calculus II for Business, Natural, and Social Sciences

4c-01-4sh

Applications of integrals to business, natural, and social sciences, functions of several variables, trigonometric functions, sequences and series, numerical methods, differential equations.

## MATH 123 Calculus I for Physics, Chemistry, and Mathematics

4c-01-4sh

**Prerequisites:** High school algebra, geometry, and trigonometry

Functions, limits, continuity, derivatives, application of the derivative, integral, and applications of the integral. (Trigonometric and inverse trigonometric functions are included throughout the course.)

## MATH 124 Calculus II for Physics, Chemistry, and Mathematics

4c-01-4sh

Logarithmic and exponential functions, techniques of integration, sequences and series, differential calculus of functions of several variables, multiple integrals, line integrals, surface integrals, differential equations with application to physical problems.

#### **MATH 127 Calculus I**

4c-01-4sh

**Prerequisite:** Permission of the mathematics department

The first in a three-course series of courses which stresses the theory of the calculus as well as the application in problem solving. Topics to be included are real numbers, an introduction to analytic geometry, functions, limits and continuity, derivatives and applications, the differential and antidifferentiation.

#### **MATH 128 Calculus II**

4c-01-4sh

**Prerequisite:** Permission of the mathematics department

The second in a three-course series of courses stresses the theory of calculus as well as the application in problem solving. Topics to be included are definite integrals and applications, logarithmic and exponential functions, trigonometric and inverse trigonometric functions, polar coordinates, hyperbolic functions, indeterminate forms, improper integrals, and Taylor's formula.

#### MATH 151 Elements of Mathematics I

3c-01-3sh

Topics included are sets, concepts of logic, mathematical systems, systems of numeration, developing the set of integers, rational numbers, and real numbers.

#### **MATH 152 Elements of Mathematics II**

3c-01-3sh

### **Prerequisite:** MATH 151

Topics included are sentences in one variable, sentences in two variables, nonmetric geometry, metric geometry, coordinate geometry, introduction to statistics and probability, computers, and calculators..

## MATH 171 Introduction to Linear Algebra

3c-01-3sh

An introduction to vector spaces, linear transformations, determinants, and matrix algebra. Topics are presented in a direct and intuitive approach.

#### MATH 214 Probability and Statistics for Business Majors

3c-01-3sh

Designed to study the methods of describing data, probability theory, discrete and continuous random variables, sampling distributions, estimation and tests of hypothesis for means, proportions and variance, and simple linear regression and correlation.

## MATH 216 Probability and Statistics for Natural Sciences

4c-01-4sh

**Prerequisite:** MATH 121

(For non-Math majors) Frequency distributions, measures of central tendency, variation, elementary probability, sampling, estimation, testing hypotheses, correlation, and regression; emphasis on applications as opposed to theoretical development of topics.

### **MATH 217 Probability and Statistics**

3c-01-3sh

(For non-Math majors) Frequency distributions, measures of central tendency, variation, elementary probability, sampling, estimation, testing hypotheses, correlation, and regression; emphasis on applications as opposed to theoretical development of topics.

#### **MATH 219 Discrete Mathematics**

3c-01-3sh

Prerequisites: COSC 110, and MATH 123, 127, or MA122

Topics include set algebra, mappings, relations, semigroups, groups, directed and undirected graphs, Boolean algebra, and propositional logic, with examples and applications of these to various areas of computer science. Emphasis placed on developing an intuitive understanding of basic structures rather than formal theories and influence of these topics on theory and practice of computing.

#### **MATH 227 Calculus III**

4c-01-4sh

**Prerequisite:** Permission of the mathematics department

The third in a three-course series of courses which stresses the theory of calculus as well as the application in problem solving. Topics to be included are vectors in the plane, parametric equations, vectors in three-dimensional space, solid analytic geometry, differential calculus of functions of several variables, directional derivatives, gradients, applications of partial derivatives, and infinite series.

#### **MATH 241 Differential Equations**

3c-01-3sh

Prerequisites: MATH 122, MATH 124, or MATH 227

Emphasis is placed on techniques of solution and elementary physical applications. A thorough study is made of differential equations classified as order one-degree one, linear, and nonhomogeneous. Solution techniques involving reduction of order techniques, the differential operator, and infinite series are introduced.

#### MATH 271 Introduction to Mathematical Proofs I

3c-01-3sh

## **Prerequisites:** MATH 123 and MATH 171

Gives student basic ideas of necessary to prove results in mathematics. Includes but is not limited to logic of mathematics, basic methods of proof, algebra of sets, equivalence relations and partitions of sets, functions, and mathematical induction.

#### MATH 272 Introduction to Mathematical Proofs II

3c-01-3sh

**Prerequisites:** MATH 124 and MATH 271 with a grade of C or better

A further study of the basic ideas of contemporary mathematics. Topics include but are not limited to mathematical induction, cardinality of sets, relations, methods of proof in number theory, analysis, and algebra.

## **MATH 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

## **MATH 317 Introduction to Probability and Statistics**

3c-01-3sh

**Prerequisites:** MATH 152, Elementary Education concentration

Introduces students to elementary concepts of probability and statistics which will enable them to analyze data, make predictions, and determine which concepts may be used with children.

## **MATH 320 Mathematics for Early Childhood**

3c-01-3sh

**Prerequisites:** MATH 151, Early Childhood major

Studies child-centered, activity-oriented mathematics programs for early childhood education. Focuses on helping children develop understanding and insight into basic concepts of mathematics through the use of manipulative materials. Topics include pre-number activities, number activities, numeration, operations on whole numbers, estimation, rational numbers, geometry, measurement, probability, statistics, and problem solving.

#### **MATH 342 Advanced Mathematics for Applications**

4c-01-4sh

**Prerequisite:** MATH 241

Deals with the application of mathematics to problems of science. Emphasis is placed on the three phases of such an application and on the development of skills necessary to carry out each step: (a) translation of the given physical information to a mathematical model; (b) treatment of the model by mathematical methods; (c) interpretation of the mathematical result in physical terms. Topics included are vector calculus, integral theorems, Fourier series, partial differential equations, and the Laplace transformation.

#### **MATH 350 History of Mathematics**

3c-01-3sh

**Prerequisite:** MATH 122 or MATH 124 or permission of instructor

Development of the central concepts of mathematics from ancient times up to the development of calculus in the seventeenth century. Mathematical concepts will be placed in historical perspective. The use of the history of mathematics as a pedagogical tool and its relationship to other sciences will be addressed.

#### **MATH 353 Theory of Numbers**

3c-01-3sh

**Prerequisite:** MATH 271 with a C or better grade

Divisibility, congruences, primitive roots, number theoretic functions, diophantine equations, continued fractions, quadratic residues.

## **MATH 355 Foundations of Geometry I**

3c-01-3sh

**Prerequisites:** MATH 171, MATH 271 with a C or better grade

Studies various groups of transformations and geometries associated with these groups in the Euclidean plane. The Euclidean Similarity and affine and projective groups of transformations are studied.

#### MATH 363 Mathematical Statistics I

3c-01-3sh

Prerequisites: MATH 122, MATH 124, or MATH 216

Probability theory necessary for an understanding of mathematical statistics is developed. Applications of set theory to models, combinations and permutations, binomial, Poisson and normal distributions, expected values, and moment generating functions.

#### **MATH 364 Mathematical Statistics II**

3c-01-3sh

**Prerequisite:** MATH 363

Multivariate distributions, change of variable technique, chi-square distribution, estimation, confidence intervals, hypothesis testing, contingency tables, goodness of fit. Practical applications are used to aid in the development.

## **MATH 366 Preparation for Actuarial Examinations**

1c-0l-1sh

**Prerequisites:** MATH 171 and calculus sequence

Provides an introduction to the actuarial profession and helps the student prepare for the first actuarial examinations. The examination preparation consists of studying sample actuarial examinations and related material. The student is required to take the actuarial examination. The student should be aware that for most students, considerable study beyond the requirements of this 1sh course will be required in order to pass the actuarial examinations.

## **MATH 371 Linear Algebra**

3c-01-3sh

**Prerequisites:** MATH 171, MATH 271 with a C or better grade

Vector spaces and linear transformations are studied in a theoretical setting. Also, canonical forms and multilinear algebra are studied.

## **MATH 417 Statistical Applications**

3c-01-3sh

**Prerequisites:** MATH 214, MATH 216, or MATH 217 (for non-Math majors)

Using computer programs, a wide array of statistical procedures for educational research workers will be explored. Basic concepts of statistical inference and prediction will be reviewed, including regression analysis and prediction, hypothesis testing, analysis of variance and covariance, and partial and multiple correlation. Emphasis is on use of the computer and interpretation of computer printouts, along with understanding techniques employed. No computer knowledge is necessary.

## MATH 418 Sampling Survey Theory and Its Application

3c-01-3sh

Prerequisites: (For non-Math majors) MATH 214, MATH 216, or MATH 217

Directed to the student who is or will be doing quantitative research, commissioning large-scale surveys, and evaluating the results. Sampling techniques and statistical principles underlying their use will be introduced. Consideration to the practical problems associated with implementation.

#### MATH 420 Patterns and Functions for Elementary and Middle School Teachers

3c-01-3sh

**Prerequisites:** MATH 152; Elementary Education concentration

Examines the function concept as applied to elementary real number functions and graphing techniques for these functions. Topics include real number functions such as absolute value, step, linear, quadratic, and other polynomial

functions, trigonometric and other periodic functions, exponential logarithmic functions, and all other inverse functions. Students will examine curricular materials that develop function concepts in Grades K-8.

## **MATH 421 Advanced Calculus I**

3c-01-3sh

**Prerequisites:** MATH 124 and MATH 272 with a C or better grade

A study of set theory, real number system, functions topology of Cartesian space, sequences, convergence and uniform convergence, continuity, and uniform continuity.

#### MATH 422 Advanced Calculus II

3c-01-3sh

**Prerequisite:** MATH 421

Includes the study of convergence sequences in Rn, global properties of continuity, uniform continuity, differentiation of Rn, Riemann integrals, and infinite series.

#### MATH 423-424 Complex Variable I and II

each 3c-0l-3sh

**Prerequisite:** MATH 124 or MATH 227

An introduction to the theory of functions of a complex variable: topics included are elementary functions, analytic functions, conformal mapping, integration, series, and application.

#### MATH 425 Applied Mathematical Analysis I

3c-01-3sh

Prerequisites: Calculus sequence, introductory linear algebra, or permission of instructor

Provides the necessary background for an understanding of mathematical programming, proofs of convergence of algorithms, convexity, and factorable functions. Also develops necessary concepts in matrix theory which are required to develop efficient algorithms to solve linear and nonlinear programming models.

#### **MATH 427 Introduction to Topology**

3c-01-3sh

**Prerequisite:** MATH 272 with a C or better grade

A study of sets, functions, continuity, compactness, the separation of axioms, and metric spaces; application of topology to analysis is demonstrated.

#### **MATH 445 Programming Models in Operations Research**

3c-01-3sh

**Prerequisites:** Two-semester sequence of calculus and MATH 171 or permission of instructor

Development of deterministic mathematical models for managerial and social sciences with relevant computational techniques.

#### MATH 446 Probabilistic Models in Operations Research

3c-01-3sh

**Prerequisites:** Two-semester sequence of calculus, MATH 363

Development of probabilistic mathematical models for managerial and social sciences with relevant computational techniques.

#### **MATH 447 Simulation Models**

3c-01-3sh

**Prerequisites:** Completion of the calculus sequence; background in statistics and probability, and familiarity with concepts of programming (knowledge of a particular programming language not required)

Considers the types of models that are basic to any simulation and methods for building and using such models. It includes discrete and continuous system simulations, their applications, and an introduction to SLAM II (Simulation Language for Alternative Modeling).

## **MATH 451 Numerical Methods for Supercomputers**

3c-01-3sh

Prerequisites: MATH 121 and MATH 122, or MATH 123 or MATH 127, MATH 171, COSC 250

Supercomputers make use of special computer architectures—vector and parallel processors—in order to achieve the fastest processing speed currently available. Students will be introduced to these features and will learn how numerical algorithms can be constructed to exploit supercomputers' capabilities. Students will gain practical experience in programming for the Cray, YMP, in incorporating existing scientific software packages into user-written programs, in submitting remote jobs to the Pittsburgh Supercomputer Center, and in producing animated graphical output to summarize the typically large volume of output data generated by large scientific programs. (Also offered as COSC 451; may not register for duplicate credit)

## **MATH 452 Seminar in Teaching Algebra**

var-1-4sh

### **MATH 453 Seminar in Teaching Geometry**

var-1-4sh

#### **MATH 454 Seminar in Teaching General Mathematics**

var-1-4sh

Designed for pre-student teacher. Students in each class will gain insights into the problems in teaching each topic and become aware of the materials available and methods of instruction geared to the special type of student. Education majors only.

## MATH 455 Seminar in Teaching Probability and Statistics

1c-0l-1sh

Designed for the pre-student teacher. Students in each class will gain insights into the problems in teaching each topic and become aware of the materials available and methods of instruction geared to the secondary mathematics student. Education majors only.

## MATH 456 Geometry for Elementary and Middle School Teachers

3c-01-3sh

**Prerequisites:** MATH 152, Elementary Education concentration

Students become acquainted with an informal, intuitive approach to geometry. Activities and materials for teaching geometrical concepts to children are an integral part of the course.

## MATH 457 Number Theory for Elementary and Middle School Teachers

3c-01-3sh

**Prerequisites:** MATH 152, Elementary Education concentration

An introduction to topics of elementary number theory including divisibility, prime numbers, factorization, modular arithmetic, problem solving, and place of number theory in the elementary school curriculum. Students will examine many number theory activities which can help to strengthen skills with basic facts in an interesting, nonroutine setting.

#### MATH 458 Logic and Logical Games for Elementary and Middle School Teachers

3c-01-3sh

**Prerequisites:** MATH 152, Elementary Education concentration

An introduction to some of the basic ideas, terminology, and notation of mathematical logic and Boolean algebra as well as games of strategy that involve logic. In addition, an investigation of how logic is taught and used in various programs for the elementary school.

#### MATH 459 Technology in Elementary and Middle School Mathematics Instruction

3c-01-3sh

**Prerequisites:** MATH 152, Elementary Education concentration

Intended to develop the knowledge, skills, and perspectives required for using educational technology in teaching mathematics at the elementary and middle school levels. Participants will have hands-on experiences with technology.

## **MATH 460 Technology in Mathematics Instruction**

3c-01-3sh

### Prerequisite: COSC 205

Designed to provide preservice mathematics teachers with expertise in instructional technology for teaching mathematics at the secondary level. Pedagogical and content knowledge are integrated within the context of technology and current reforms.

## **MATH 465 Topics in Statistics**

3c-01-3sh

Prerequisite: MATH 364

Correlation and regression from applied and theoretical points of view, bivariate and multivariate normal distribution, analysis of variance, nonparametric methods. Practical problems involving statistical techniques and use of computer statistical packages. Knowledge of computer programming is not required.

## **MATH 471 Basic Concepts of Algebra**

3c-01-3sh

**Prerequisites:** MATH 152, Elementary Education concentration

Concepts of basic algebraic structures such as group, ring, integral domain, field, and vector space are studied within the context of the mathematical maturity of the student. Other topics include relations and functions, polynomials and polynomial equations, systems of equations, and inequalities. Consideration given to development of these concepts in the mathematics curriculum.

#### MATH 476 Abstract Algebra I

3c-01-3sh

**Prerequisite:** MATH 272 with a C or better grade

Development of theory of integral domains, fields, rings, and groups; designed to develop student's power to think for himself or herself and to improve ability to construct formal proofs.

## MATH 477 Abstract Algebra II

3c-01-3sh

**Prerequisite:** MATH 476

Designed to have student continue study of algebra by use of axiomatic method; Euclidean domains; polynomial domains and extension fields included; interrelationships between these structures and simpler structures, particularly groups and rings, are developed as in study of Galois group of a polynomial and in an introduction to Galois theory.

#### **MATH 480 Senior Seminar**

1c-0l-1sh

**Prerequisites:** Senior standing in mathematics major

To assess the effectiveness of the mathematics curriculum and to provide mathematics majors with a culminating mathematical experience.

#### **MATH 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

#### **MATH 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

#### **MATH 490 Independent Study**

## **MATH 493 Internship in Mathematics**

var-3-12sh

Prerequisites: Completion of core curriculum, completion of application

Positions with participating companies or agencies provide students with experience in mathematics-related work under the supervision of the agencies and faculty. Requirements include one to three on-site consultations, two university consultations, completion of progress reports, and presentation of final cumulative paper. Internship credit may not be used in fulfilling math major course requirements.

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## Indiana University of Pennsylvania

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## **Communications Media**

## **Department of Communications Media College of Education**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

COMM 101 COMM 150 COMM 201 COMM 205 COMM 230 COMM 240 COMM 249 COMM 251 COMM 271 COMM 281 COMM 301 COMM 302 COMM 303 COMM 305 COMM 307 COM

## **COMM 101 Communications Media in American Society**

3c-01-3sh

Required of Communications Media majors

An introduction to the evolution, status, and future of communications media. Students explore intrapersonal communication through self-assessment, values clarification, and feedback; interpersonal communication through interviews, observations, case studies, and gaming; and mass communications through the examination of the processes and the technology utilized to disseminate and manage information. Career paths, field applications, professional associations, and the primary literature are investigated. (Previous title: Survey of Communications Media)

## **COMM 150 Aesthetics and Theory of Communications Media**

3c-01-3sh

Prerequisite: <u>COMM 101</u>

Examines the theoretical assumptions of sight, sound, and motion as applied to the design of communication products for different media formats. Within the course, strategies for creative composition are demonstrated. Psychological and physiological implications of images are discussed. (Offered as CM200 Images prior to 1999-2000)

## **COMM 201 Internet and Multimedia**

3c-01-3sh

**Prerequisite:** BEDU 101/COMM 101/COSC 101/IFMG 101 or prior exposure to word processing and electronic mail The major focus will be on the evaluation of information and multimedia resources available on electronic networks when doing research in an area of one's choice. This information literacy course is designed for students to gain a more in-depth understanding of the information resources available electronically and of how to utilize them more effectively in communicating. Students will learn how to access and utilize these resources for two-way communications and support for decision making while incorporating selected elements in multimedia presentations of their own design. (BEDU 201/COMM 201/COSC 201/IFMG 201/LIBR 201 may be used interchangeably for D or F repeats and may not be counted for duplicate credit.)

#### **COMM 205 Media Presentation Skills**

3c-01-3sh

**Prerequisites:** COMM 150, CM majors only

Introduces students to basic presentation skills, emphasizing the use of media to enhance presentations. Students will

research, organize, and write presentations, design appropriate media, and deliver presentations in various settings, including to large groups, on camera and in groups with other students.

#### **COMM 230 Issues in International Communication**

3c-01-3sh

A survey of international communications with particular emphasis on communications flow, four-press theories, ownership, structure and access to media, government/media relationships, and the impact of communications on developed and developing countries.

#### **COMM 240 Communications Graphics**

3c-01-3sh

**Prerequisites:** COMM 101 or permission

An introduction to graphic design concepts and related processes and techniques for a variety of forms of presentation media including television, multimedia, and on-line communications for educational, corporate training, and communications specialists. Both two- and three-dimensional design, and basic animation concepts will be explored. Hands-on experiences using a variety of graphic software applications. (Offered as CM440 prior to 1999-2000)

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#### **COMM 249 Basic Audio Recording Techniques**

3c-01-3sh

**Prerequisite:** COMM 101 or permission

Theory and practice of recording sound, developing an understanding of the language of sound recording as well as the ability to make sound recordings. Offers exposure to recording for various media including radio, music, motion pictures, television, and multimedia production. Material also appropriate for teachers who wish to make use of tape recorder in the classroom. Students will gain hands-on experience through labs and projects to be completed outside of class. Students will be expected to provide an audio tape recorder. (Offered as CM449 prior to 1999-2000)

#### **COMM 251 Television Production**

3c-01-3sh

**Prerequisite:** COMM 101 or permission

Develops basic skills in television production and direction. Consideration of operating problems of a television studio, as well as functions, limitations, and capabilities of television equipment and facilities. (Offered as CM451 prior to 1999-2000)

## **COMM 271 Beginning Photography**

3c-01-3sh

**Prerequisite:** COMM 101 or permission

Working with black-and-white materials, the student learns to operate a camera, develop film, make contact prints and enlargements, and mount prints for display. Ancillary topics are introduced such as filtration, print spotting, flash, and the use of accessory lenses. Student is required to have a 35mm camera, preferably a single-lens reflex, with fully manual focusing and exposure capability.

#### **COMM 281 Special Topics**

var-1-3sh

Prerequisite: As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

#### **COMM 301 Technology for Learning and Instruction**

3c-01-3sh

**Prerequisite:** EDSP 202 or permission

Preservice teachers gain competencies in selection, evaluation, and utilization of various instructional technologies. Application of new technologies to teaching and learning will be emphasized, along with performance-based activities in instructional design. A major portion of the course is devoted to the integration of computer-based instructional activities in the school curriculum. Does not count towards semester hours needed for Communications Media major.

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#### **COMM 302 Research in Communications Media**

3c-01-3sh

**Prerequisite:** COMM 150, ENGL 101 and ENGL 202 (C or better)

Designed to provide knowledge of the resource materials and research strategies used in the communications media field. Students will design basic data gathering instruments, collect data, and assimilate information from various sources and data into communication products, services, or documents.

#### **COMM 303 Scriptwriting**

3c-01-3sh

Prerequisite: COMM 101, ENGL 101 and ENGL 202 (C or better) or permission of instructor

An introduction to the design of media materials and script writing. Style and techniques of writing will be analyzed. Classroom emphasis is on writing, critiques, and revision of designs and scripts. Scripts for audio, multimedia presentations, and motion picture and television productions will be written.

## **COMM 305 Electronic Media Programming and Sales**

3c-01-3sh

**Prerequisite:** COMM 150

Explores two primary functions of the electronic media: providing programming for audiences and providing economic viability to media outlets by selling commercial time to clients. Students will explore topics such as program development, scheduling, and promotion. Also explores the basic strategies used in the electronic media to sell commercial time and the use of audience and ratings analysis in the processes of programming and sales.

## **COMM 330 Instructional Design for Training and Development**

3c-01-3sh

Prerequisites: COMM 101, 240, ENGL 101 and ENGL 202 (C or better) or permission

Examines the systems approach for the design, development, and evaluation of instructional material. Students will learn about the history of instructional design and development and the current status of the field. Each student will produce a self-instructional prototype that will require the student to systematically and creatively apply the concepts and rules learned in the class. (Previous title: Communications Media in Training and Education)

## **COMM 335 Communications Consulting and Project Management**

3c-01-3sh

**Prerequisite:** COMM 101

Presents the theoretical views and clinical applications of consulting skills and practices associated with and needed by communication professionals. Presented will be the functions and role of the consultant, the client's perspective on consulting, hiring a consultant, ethics in consulting, personal assessment tests, and related literature and models.

#### **COMM 340 Advanced Communication Graphics**

3c-01-3sh

**Prerequisite:** COMM 240, permission

Provides in-depth experience in planning and preparing graphic materials commonly used in the communications profession; graphic materials include design, photosketching, lettering, slide titling and duplication, preparation of camera-ready art, lithographic film and master layout sheets, professional slide flat production and photocopy, large-format transparency production, color key, and color systems. (Offered as CM441 prior to 1999-2000)

#### **COMM 345 Television Criticism**

3c-01-3sh

**Prerequisite:** COMM 150 or permission of instructor

The medium of television offers a unique environment for development and delivery of information, entertainment, and news. Explores and analyzes television programming. Includes examination of genres ranging from situation comedy to drama, to mini-series and made-for-TV movies.

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#### **COMM 349 Radio Production**

3c-01-3sh

**Prerequisite:** COMM 150 or permission of instructor

An introduction to production techniques as they pertain to radio. The student will be exposed to programming, scripting, producing programs, intros, outros, commercials, public service announcements, station identifications, and promotional announcements. Also deals with the interaction of a radio station with national networks and with the real-life concerns of deadlines. (Offered as CM405 prior to 1999-2000)

#### **COMM 351 Advanced Video Production**

3c-01-3sh

**Prerequisite:** : COMM 251 and COMM 303 or COMM 403

A production course that emphasizes advanced field production techniques. Some of the topics covered will include field lighting, video post-production editing with A-B roll, on-line editing, and nonlinear editing. Students will gain hands-on experience through projects and field trips.

#### **COMM 354 Broadcast Regulation**

3c-01-3sh

**Prerequisite:** COMM 150 or permission of instructor

Delves into the areas of law affecting broadcasters. Topics covered are laws pertaining to cable television, station licensing and renewal, political broadcasting, libel, copyright, the right of reply, and privacy. The historical development of the FCC and its jurisdictions will also be examined. Case studies will be discussed along with the relevancy of some laws as they pertain to today's society. (Offered as CM454 prior to 1999-2000)

#### **COMM 371 Consulting Practices in Communications**

3c-01-3sh

**Prerequisites:** COMM 271, permission

Students will develop camera and print-making skills to the degree that they can produce salon-quality photographic prints. Students will understand the photographic processes utilized in producing a high-quality negative and print to the extent that they can manipulate those processes to communicate an intended message with their photographs. Emphasis will be on camera and print control as well as composition and negative and print manipulation. (Offered as CM472 prior to 1999-2000)

#### **COMM 375 Mass Media and Behavior**

3c-01-3sh

**Prerequisites:** PSYC 101 and junior or senior status

Theory and research on the influence of the mass media on human behavior and attitudes. Topics include the effects of news and political advertising on public opinion; the effects of racist and sexist portrayals; and the effects of violence and pornography on aggressive behavior. (Also offered as <u>PSYC 375</u>; may be taken only once)

#### COMM 380 The History of African Americans in Film

3c-01-3sh

Traces the historical development of the roles of African Americans in film and television. Students examine the early stereotypic portrayals of this group, the origins of these stereotypes, and the ongoing changes, positive and negative, that have occurred regarding the media representation through research, film, and archetypal analysis, observation, and discussion. The new generation of African American filmmakers and their creative efforts to promote more realistic portrayals are analyzed.

#### **COMM 390 Practicum in Communications**

var-1-3sh

**Prerequisites:** COMM 101, written permission

An opportunity with credit for students to make contributions to department and campus media-related facilities and offices including WIUP-TV, WIUP-FM, *Penn*, Public Relations, and Media Resources. Repeatable for a maximum of 6sh.

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## **COMM 395 Career Planning in Communications Media**

1c-0l-1sh

**Prerequisite:** Minimum 20 COMM semester hours

Serves as a primary skill-building and strategy-seeking experience for the internship program and later career entry and growth. Extensive writing, research, and individual counseling are involved. Travel may be necessary.

#### **COMM 403 Broadcast Newswriting**

3c-01-3sh

**Prerequisites:** COMM 101, 240, ENGL 101 and ENGL 202 (C or better) or permission of instructor Acquaints students with the various styles and script formats used in writing news scripts for radio and television. Includes instruction in writing news stories for radio and television and an introduction to broadcast news production. Students will practice and work to improve writing skills in this area of broadcast writing.

#### **COMM 408 Media Field Studies**

3c-01-3sh

**Prerequisites:** COMM 101, junior standing, and permission of instructor

A hands-on course designed to help the students learn about the production process involving on-location production. Will have three distinct phases: students will begin with research and pre-production tasks on campus; students may travel to a remote site to collect additional information and images and use those images to complete a production; and students will be responsible for travel expenses. (Offered as CM 401 prior to 2000-2001)

## **COMM 440 Multimedia Production**

3c-0l-3sh

**Prerequisites:** COMM 240 or permission of the instructor

The student will learn the processes and techniques of planning, designing, and producing used with interactive multimedia. Provides hands-on experiences in the use of graphics, audio, animation, video, and authoring software applications to produce an aesthetically acceptable product that meets specific objectives. Designed to meet the needs of educational media, corporate training, and communications specialists.

#### **COMM 445 Applications and Techniques of Motion Pictures**

3c-01-3sh

**Prerequisites:** COMM 150 or permission of instructor

A survey of the role that motion picture film production plays in society. Major emphasis will be placed on the variety of applications with special consideration given to motion pictures as a tool to support research.

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#### **COMM 449 Advanced Audio Recording Techniques**

3c-01-3sh

Prerequisites: **COMM 249**, permission

Sound recording utilizing advanced techniques and concentrating on specific applications. Student participates in an intensive lab experience utilizing the most advanced equipment available. Emphasis will be on application, editing, signal processing, and multi-track recording. Student is expected to produce a sound recording for a specific use of professional quality. (Offered as CM450 prior to 1999-2000)

#### **COMM 451 Broadcast News Process**

3c-01-3sh

**Prerequisites:** COMM 251, COMM 349, permission

Reporting and presenting radio and TV news programs. Analysis of news and public affairs broadcasting. (Offered as

CM453 prior to 1999-2000)

## COMM 460 Emerging Trends in Communication Technology

3c-01-3sh

**Prerequisites:** COMM 150

An introduction to the ever-changing world of telecommunication technologies, focusing on modern, computer-driven modes of information exchange. Students will get an opportunity to synthesize several of the technologies covered in the course and integrate them into a workable solution to a practical telecommunication problem. (Previous title: Alternative Systems of Communications)

## **COMM 470 Management Practices in Electronic Communications**

3c-01-3sh

Prerequisites: COMM 150, any COMM Writing Intensive course, and junior or senior standing

Presents the theory and practice of media management. Areas covered will include problem-solving, documenting and reporting, career systems, budgeting, personnel, ownership, unionization, market analysis, and special topics as directly related to communications media industries. Students will conduct case study research related to their career direction.

## **COMM 471 Electronic Imaging**

3c-01-3sh

**Prerequisites:** COMM 271 or permission

An introduction to the use of electronic still photography (ESP) for the capture, recording, and transfer of still images and the use of computers for the storage, manipulation, and output of color and black and white photography. Extensive training in the use of software packages for image enhancement, restoration, and manipulation will be provided. Students will learn the applications of this technology to the print media and will examine the ethical and legal issues of image manipulation. (Offered as CM479 prior to 1999-2000)

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#### **COMM 475 Senior Portfolio Presentation**

3c-01-3sh

**Prerequisites:** Communications Media majors only, 24 COMM credits and COMM 395

Students will compile and present a series of works produced through previous Communications Media courses and activities. The result will be a portfolio suitable for presentation to a potential employer. The portfolio may include examples of student works from a variety of subject areas.

#### **COMM 480 Seminar in Communications Media**

3c-01-3sh

**Prerequisites:** COMM 302, junior or senior standing, other prerequisites as appropriate to course content A seminar in selected communications issues or problems. Includes the reading and review of the current literature as appropriate to the major topic presented in the seminar. Students will be involved in the research and oral defense of a major research paper.

## **COMM 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

## **COMM 493 Internship**

var-6, 9, 12sh

## Prerequisites: **COMM 395**, department approval

Supervised professional summer work experience in communications media. Sites reflect the academic goals of the department and are approved and administered by a department coordinator. Location, duties, length of internship, and hours are individually tailored to student career goals. Sites represent wide application of process and technology of communications in business, education, allied health, or other agencies. Students must complete 40 hours of the internship work experience per semester hour earned. A maximum of 15sh is applicable to an undergraduate degree program from any combination of internship and practicum experience.

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## Indiana University of Pennsylvania

2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# Library

The University Libraries Academic Affairs Division

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

#### <u>LIBR 151 LIBR 201 LIBR 281 LIBR 481</u>

#### LIBR 151 Introduction to Library Resources

var-1sh

A lecture/laboratory course (fourteen one-hour classes) which provides an introduction to the resources of a university library, how those resources are organized, and how to use those resources effectively.

#### LIBR 201 Internet and Multimedia

3c-01-3sh

Prerequisite: <a href="BEDU/COSC/IFMG">BEDU/COSC/IFMG</a> 101 or prior exposure to word processing and electronic mail
The major focus will be on the evaluation of information and multimedia resources available on electronic networks when doing research in an area of one's choice. This information literacy course is designed for students to gain a more in-depth understanding of the information resources available electronically and of how to utilize them more effectively in communicating. Students will learn how to access and utilize these resources for two-way communications and support for decision making while incorporating selected elements in multimedia presentations of their own design. (BEDU/COMM/COSC/IFMG/LIBR 201 may be used interchangeably for D or F repeats and may not be counted for duplicate credit.)

#### **LIBR 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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#### **LIBR 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

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## Indiana University of Pennsylvania

2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# **Psychology**

## **Department of Psychology**

**College of Natural Sciences and Mathematics** 

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

PSYC 101 PSYC 280 PSYC 290 PSYC 291 PSYC 310 PSYC 311 PSYC 312 PSYC 315 PSYC 320 PSYC 321 PSYC 325 PSYC 330 PSYC 331 PSYC 335 PSYC 341 PSYC 342 PSYC 345 PSYC 350 PSYC 355 PSYC 356 PSYC 371 PSYC 372 PSYC 374 PSYC 375 PSYC 376 PSYC 378 PSYC 379 PSYC 390 PSYC 410 PSYC 411 PSYC 421 PSYC 425 PSYC 450 PSYC 480 PSYC 481 PSYC 482 PSYC 493

#### **PSYC 101 General Psychology**

3c-01-3sh

An introduction to the scientific study of behavior and mental processes.

## **PSYC 280 Psychological Inquiry**

3c-01-3sh

**Prerequisites:** PSYC 101, Psychology minors

Introduces students minoring in Psychology to issues central to carrying out and interpreting empirical research in the field. Students will become more sophisticated consumers of empirical research findings. Students who have successfully completed <u>PSYC 290</u> are not permitted to take this course for credit.

## PSYC 290 Research Design and Analysis I

3c-21-4sh

Prerequisites: PSYC 101, MATH 217

A laboratory course devoted to designing, conducting, and evaluating results of psychological experiments.

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#### PSYC 291 Research Design and Analysis II

3c-21-4sh

**Prerequisites:** <u>PSYC 101</u>, "C" or better in <u>PSYC 290</u> A continuation of Research Design and Analysis I.

#### PSYC 310 Developmental Psychology

3c-01-3sh

Prerequisite: PSYC 101

Comprehensive study of all factors that contribute to human development from conception to death, particularly as they relate to psychological development of individual. A survey course directed at students not planning to take <u>PSYC 311</u>, <u>312</u>, or 373. Students may receive credit towards the Psychology major or minor for only one of <u>PSYC 310</u>, <u>311</u>, <u>315</u>.

## **PSYC 311 Child Psychology**

3c-01-3sh

Prerequisite: PSYC 101

The study of factors that influence total development and behavior of child. Current theories and research are considered, with focus upon optimum development of individual. Students may receive credit towards the Psychology major or minor for only one of PSYC 310, 311, or 315.

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#### **PSYC 312 Adult Development and Aging**

3c-01-3sh

Prerequisite: PSYC 101

A survey of physiological, cognitive, emotional, and social issues affecting the young adult, the middle-aged, and the elderly. Includes an examination of significant adult life crises.

## **PSYC 315 Experimental Development Psychology**

3c-21-4sh

Prerequisite: PSYC 280 or PSYC 290

Studies human development from conception to death with emphasis on the physical, cognitive, and emotional domains. Students will be involved in observation and data collection. Students may receive credit towards the Psychology major or minor for only one of PSYC 310, 311, or 315.

#### **PSYC 320 Personality**

3c-01-3sh

Prerequisite: PSYC 101

Provides comparative analysis of major representative traditional and contemporary theories of personality.

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#### **PSYC 321 Abnormal Psychology**

3c-01-3sh

Prerequisite: PSYC 101

The description, causes, and treatment of behaviors labeled abnormal in our society are studied from experimental and clinical points of view.

#### **PSYC 325 Psychological Testing and Measurement**

3c-21-4sh

**Prerequisites:** PSYC 101, MATH 217, sophomore standing

Presents a series of focused discussions on principles, methods, and issues of psychological measurement. Also describes the major psychological tests currently in use and illustrates the administration and scoring of these tests. The laboratory activities are intended to provide hands-on experiences in computerized analysis and evaluation of psychological tests, to demonstrate test administration and scoring in practical settings, and to enhance the understanding of psychological testing through class projects. (Offered as PSYC 322 prior to 2000-01)

#### **PSYC 330 Social Psychology**

3c-01-3sh

Prerequisite: <u>PSYC 101</u>

The study of the effects of the social environment on human behavior. Topics include perception of person, attitude formation and change, and small-group interaction. Students may not receive credit toward psychology major or minor for both PSYC 330 and 335.

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## **PSYC 331 Environmental Psychology**

3c-01-3sh

**Prerequisite:** PSYC 101

The study of the relationship between human behavior and its environmental context. Emphasis will be on the physical environment, both natural and built.

#### **PSYC 335 Experimental Social Psychology**

3c-21-4sh

Prerequisite: PSYC 280 or PSYC 290

A laboratory course in the effects of the social environment on human behavior. Topics include perception of persons, attitude formation and change, and small-group interaction. Includes experience with social psychological research methods. May not be taken for credit by students who have completed <u>PSYC 330</u>.

## **PSYC 341 Conditioning and Learning**

3c-2l-4sh

Prerequisites: PSYC 101, 290

An examination of the basic principles of learning and related phenomena; discussion of classical conditioning, discrimination learning, and aversive control of behavior.

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#### **PSYC 342 Human Cognition: Memory and Thinking**

3c-21-4sh

Prerequisites: PSYC 101, 290

A study of methods and findings in areas of human memory and human information processing. Students may not receive credit towards the psychology major or minor for both PSYC 342 and 345.

## **PSYC 345 Introduction to Human Cognition**

3c-01-3sh

Prerequisite: PSYC 101

Designed to provide an overview of cognitive psychology. The Information Processing Model is contrasted with its predecessor, Behaviorism, and its contemporary challenger, Connectionism. Students may not receive credit towards the psychology major or minor for both PSYC 342 and 345.

## **PSYC 350 Physiological Psychology**

3c-21-4sh

Prerequisites: PSYC 101, 290

A study of the relationship between behavior and the anatomy and physiology of the nervous system. Students may not receive credit towards the Psychology major or minor for both PSYC 350 and 356.

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#### **PSYC 355 Comparative Psychology**

3c-01-3sh

Prerequisite: PSYC 101

A survey of animal behavior patterns and control mechanisms including learning, development, communication, and social behavior. Emphasis is on the relationship of the animal to its environment and on the relationship of animal models to human behavior.

## **PSYC 356 Biopsychology**

3c-01-3sh

**Prerequisites:** PSYC 101

A study of the relationship between behavior and the anatomy and physiology of the nervous system. Students may not receive credit towards the Psychology major or minor for both PSYC 350 and 356.

#### **PSYC 371 Human Motivation**

3c-01-3sh

Prerequisite: PSYC 101

A systematic study of how behavior is initiated, sustained, directed, and terminated. Current theories in this area are critically reviewed.

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## **PSYC 372 Drugs and Behavior**

3c-01-3sh

**Prerequisites:** <u>PSYC 101</u> and junior standing or permission

A survey of the current knowledge concerning the actions of drugs. Topics will include legal and social issues surrounding drug use, hazard potential of commonly used drugs, review of current theories and issues regarding the use of drugs in psychotherapy, and consideration of treatment approaches for addiction.

#### **PSYC 374 Stress and Coping**

3c-01-3sh

Prerequisite: <u>PSYC 101</u>

Fundamental concepts and findings in stress and stress-related disorders. Relationships of stress to disease and methods for coping with stress are presented.

#### PSYC 375 Mass Media and Behavior

3c-01-3sh

**Prerequisites:** PSYC 101 and junior or senior status

Theory and research on the influence of the mass media on human behavior and attitudes. Topics include: the effects of news and political advertising on public opinion; the effects of racist and sexist portrayals; and the effects of violence and pornography on aggressive behavior. (Also offered as COMM 375; may not be taken for duplicate credit)

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### PSYC 376 Psychology of Health Behavior

3c-01-3sh

**Prerequisite:** PSYC 101

An examination of the role of behavior factors in health status with a strong focus on preventive health behaviors and the role of the psychologist in promotion of health-related behavioral changes.

#### PSYC 378 Psychology of Death and Dying

3c-01-3sh

Prerequisite: PSYC 101

Theories and research which delineate the psychological factors affecting the dying person as well as those persons close to one who is dying are discussed.

#### **PSYC 379 Psychology of Human Sexuality**

3c-01-3sh

Prerequisite: PSYC 101

Provides an overview of the psychological issues and research relevant to sexuality with an emphasis on gender roles. Social, psychological, and gender perspectives are used to examine a number of topics, including contemporary sexual attitudes, sexual response, sexual relationships, sexual dysfunction, sexual variations, sexual preference, and sexual violence. Research pertaining to each topic is presented. Students are encouraged to critically evaluate research and theory and to make connections between the material and their personal experience.

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#### PSYC 390 Industrial-Organizational Psychology

3c-01-3sh

Prerequisites: PSYC 101, MATH 214/217

The study of psychological principles in work organizations; application of psychological theory to the understanding and explanation of individual behavior and experience in work organizations. May not be taken for credit by students who successfully completed <u>PSYC 425</u>.

## **PSYC 410 Historical Trends in Psychology**

3c-01-3sh

**Prerequisite:** PSYC 101, junior or senior standing or permission

A comprehensive overview of historical antecedents of contemporary psychology with emphasis on their implications for future developments in the field.

## **PSYC 411 Psychology of Women**

3c-01-3sh

Prerequisites: PSYC 101, junior or senior standing or permission of the instructor

A critical examination of the assumptions about women which are held by the discipline of psychology, considering both current research and individual experience. The psychological effects of socialization on sex role identity, achievement, interpersonal power, mental health, and critical incidents in female development are discussed in the context of relevant concepts from developmental and social psychology.

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## **PSYC 421 Psychology of Work**

3c-01-3sh

Prerequisite: PSYC 291

The analysis, measurement, prediction, and development of human aptitude, ability, and performance in work and employment situations.

### **PSYC 425 Experimental Organizational Psychology**

3c-21-4sh

**Prerequisite:** 12 credits of psychology (including <u>PSYC 290</u>, beyond <u>PSYC 101</u>)

Introduces the student to theory, research, and methods in the investigation of human behavior and experience in organizations. Both classical and current literature in the field are discussed. In addition to lecture, students will conduct empirical research projects.

## **PSYC 450 Introduction to Clinical Psychology**

3c-01-3sh

**Prerequisites:** PSYC 101, 320, 321, and permission of instructor

An overview of clinical psychology, with emphasis on clinician's use of methods of evaluation and on treatment and modification of behavior.

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#### **PSYC 480 Honors Seminar in Psychology**

3c-01-3sh

A seminar in the graduate tradition with a specialized topic. May be taken more than once to a maximum of 6sh.

#### **PSYC 481 Special Topics in Psychology**

var-1-3sh

**Prerequisites:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are offered primarily for upper-level undergraduate students. May be taken more than once to a maximum of 6sh.

#### **PSYC 482 Independent Study in Psychology**

var-1-3sh

**Prerequisites:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Individual students pursue their particular interests in psychology in consultation with a member of the staff. May be

taken more than once to a maximum of 6sh. Approval is based on academic appropriateness and availability of resources.

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#### **PSYC 493 Psychological Practicum**

var-1-12sh

**Prerequisites:** PC101 and department consent

Under supervision of psychology department, selected students receive experience in application of psychological techniques. May be taken more than once to a maximum of 12sh.

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# **Educational and School Psychology**

# **Department of Educational and School Psychology College of Education**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

EDSP 202 EDSP 281 EDSP 373 EDSP 376 EDSP 377 EDSP 378 EDSP 481 EDSP 482 EDSP 499

#### **EDSP 202 Educational Psychology**

3c-01-3sh

**Prerequisites:** <u>PSYC 101</u>, admission to sophomore standing in teacher certification or permission Designed to promote a better understanding of the principles of psychology governing human behavior, with particular emphasis on their relation to learner, learning process, and learning situation in an educational environment.

#### **EDSP 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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#### **EDSP 373 Psychology of Adolescent Education**

3c-01-3sh

Prerequisite: EDSP 202

A study of significant characteristics, behavior, and educational and social problems of adolescents.

#### **EDSP 376 Behavior Problems**

3c-01-3sh

Prerequisite: EDSP 202

An examination of emotional and social aspects of behavior problems encountered in classroom situations and potential remedial techniques.

#### **EDSP 377 Educational Tests and Measurements**

3c-01-3sh

**Prerequisites:** PSYC 101, admission to junior standing in teacher certification or permission Designed to acquaint students with major methods and techniques of evaluation used to assess and report growth, development, and academic achievement of individuals in an educational environment. Includes interpretation of standardized test information.

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**EDSP 378 Learning** 

3c-01-3sh

Prerequisite: EDSP 202

Explores learning theories and educational application in the classroom.

#### **EDSP 481 Special Topics in Educational Psychology**

var-1-3sh

**Prerequisite:** Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are offered primarily for upper-level undergraduate students.

#### **EDSP 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

#### **EDSP 499 Independent Study**

var-1-3sh

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# **Office Systems**

**Department of Technology Support and Training Eberly College of Business and Information Technology** 

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

OSYS 281 OSYS 301 OSYS 310 OSYS 311 OSYS 313 OSYS 315 OSYS 402 OSYS 411 OSYS 412 OSYS 413 OSYS 480 OSYS 481 OSYS 482 OSYS 493

Note: All courses at the 300 and 400 level are open only to students with junior or senior standing. All students, regardless of major or program affiliation, must meet course prerequisite requirements in order to enroll for a given course. Business majors (except those majoring in Business Education) who have not achieved Junior Standing are normally not permitted to enroll in 300- or 400-level courses.

#### **OSYS 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Prerequisite: As appropriate to course content Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

#### **OSYS 301 Advanced Microcomputer Applications**

3c-01-3sh

**Prerequisite:** BEDU/COSC/IMFG 101, or permission of instructor

Advanced utilization of the microcomputer to enhance productivity of office employees: executive and managerial, professional, and support personnel through optimization of hardware and software. Comparative and evaluative techniques for appropriate selection and implementation of software. Operating environment, integrated suites, multimedia, Internet, and utility software will be emphasized.

#### **OSYS 310 Telecommunications**

3c-01-3sh

Prerequisite: <u>BEDU/COSC/IMFG 101</u>

Provides an introduction to telecommunications in the business environment. Includes an overview of electronic communication systems including a conceptual framework as well as hands-on experience. Concepts of telecommunications technology, applications, and management as they apply to business and industry will be addressed. (Offered as OSYS 400 prior to 2000-2001)

#### **OSYS 311 Training Methods in Business and Information Technology Support**

3c-ol-3sh

Prerequisites: <u>PSYC 101</u>, junior standing

Includes the application of theories of adult learning to planning, delivering, and evaluating training for education and information technology. Major emphasis is placed on the planning of instruction. Topics include needs assessment; live and mediated instruction; classroom management; evaluation and follow-up methods; and evaluation of training

strategies.

#### **OSYS 313 Office Systems Technologies**

3c-01-3sh

Prerequisite: Junior standing

Emphasis will be on systems hardware, especially the microcomputer. Concepts and design principles common to all microprocessors are studied. Auxiliary hardware, such as reprographics, printers, modems, scanners, and laser technology will be included.

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#### **OSYS 315 Records Administration**

3c-01-3sh

**Prerequisite:** BEDU/COSC/IFMG 101, or permission of instructor

Development of the goal of records administration as a system including the input, process, and output components. Records creation, records classification systems, evaluation, retention programs, manual through automated information systems, image technology, form design, record control systems, records manuals, and disaster prevention and recovery will be discussed.

#### **OSYS 402 Website Development and Administration**

3c-01-3sh

Prerequisite: <u>BEDU/COMM/COSC/IFMG/LIBR 201</u> or instructor permission

Guides the student through a hands-on, step-by-step process of creating an attractive, well-designed website for an enterprise. The student will learn how to install and configure a WWW server, publish web pages using the latest tools and set up mechanisms to manage and update a website and content.

#### **OSYS 411 Microcomputer Support for Office Systems**

3c-01-3sh

Prerequisites: OSYS 301, OSYS 313, and OSYS 400

Includes three dimensions of study relative to office systems—helpdesk management, training and development, and ergonomics. Incorporates practical applications for delivering technical support through the operation of a helpdesk. Requires development and delivery of technological applications and a field study of ergonomic office designs.

#### **OSYS 412 Administrative Office Services**

3c-01-3sh

A presentation of fundamental principles and practices used in the development of an office. Specialized areas such as systems analysis, work simplification, forms design, information processing, office machines and equipment, records management, office design and layout, office location and physical environment, office supervision, office manuals, and development of office personnel will be discussed.

#### **OSYS 413 Enterprise Technology Support**

3c-01-3sh

Prerequisites: OSYS 313; COSC/IFMG 352; or permission of instructor

Provides a comprehensive and practical knowledge of enterprisewide technology. Topics covered include knowledge management, remote user support, teleconferencing, and network management and enhancement. Students will have hands-on experience working with software, customizing user environments, managing technology security, enhancing and troubleshooting the computing environment.

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#### **OSYS 480 Seminar in Business Technology Support**

3c-01-3sh

**Prerequisites:** Graduating seniors only or permission of instructor

Emphasis will be on the solving of office management problems. Provides an opportunity to integrate and apply the

skills and knowledge previously gained in the Business Technology Support major.

#### **OSYS 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

#### **OSYS 482 Independent Study**

var-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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#### **OSYS 493 Internship**

var-3-6sh

**Prerequisites:** Approval of internship coordinator, chairperson, and dean and 2.75 overall GPA and 3.0 GPA in Business

A supervised office experience program with an approved agency (business, industry, and government).

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# Accounting

#### **Department of Accounting**

**Eberly College of Business and Information Technology** 

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

ACCT 201 ACCT 202 ACCT 281 ACCT 299 ACCT 300 ACCT 301 ACCT 302 ACCT 311 ACCT 321 ACCT 399 ACCT 401 ACCT 412 ACCT 422 ACCT 431 ACCT 435 ACCT 441 ACCT 451 ACCT 461 ACCT 471 ACCT 481 ACCT 482 ACCT 488 ACCT 493

*Note:* All courses at the 300 and 400 level are open only to students with junior or senior standing. All students, regardless of major or program affiliation, must meet course prerequisite requirements in order to enroll for a given course.

#### **ACCT 201 Accounting Principles I**

3c-01-3sh

Introduces the student to the accounting cycle in service and merchandising concerns using the single proprietorship form of business organization; covers use of special journals and subsidiary ledgers in the accounting system as well as accounting and internal control procedures for cash, receivables, inventory, and plant and equipment.

#### **ACCT 202 Accounting Principles II**

3c-01-3sh

**Prerequisites:** C or better in ACCT 201, sophomore status

Covers accounting principles and procedures for payroll, partnerships, corporations, long-term liabilities and investments, and manufacturing firms with a general accounting system. Introduces the student to cost accounting systems, financial statements analysis, budgeting, and use of accounting information in making managerial decisions.

#### **ACCT 281 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 281 are offered primarily for lower-level undergraduate students.

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#### **ACCT 299 Cooperative Education I**

0c-01-2sh

**Prerequisites:** Completion of 55 credits with a minimum GPA of 2.0 including at least a "C" in <u>ACCT 201</u>, <u>ACCT 202</u>, and <u>IFMG 241</u>, and approval of the cooperative advisor

The initial experience in a program designed to combine classroom theory with practical application through jobrelated experiences. Students are actively employed in the accounting area in business, industry, government, and a variety of organizations and agencies with a work focus which relates to their academic training and career objectives in accounting. The student is expected to complete subsequently ACCT 399 or an internship.

#### **ACCT 300 Managerial Accounting**

3c-01-3sh

**Prerequisite:** ACCT 202 (not open to Accounting majors)

Emphasizes the use of accounting information in performing the managerial functions of planning, control, decision making, and performance evaluation. Note: Accounting majors will not be granted degree credit for ACCT 300.

#### **ACCT 301 Intermediate Accounting I**

3c-01-3sh

**Prerequisite:** C or better in <u>ACCT 202</u>

An overview of the foundation of accounting theory dealing with application of generally accepted accounting principles as promulgated in professional pronouncements to the reporting process and to accounting for various asset items in the financial statements.

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#### **ACCT 302 Intermediate Accounting II**

3c-01-3sh

**Prerequisite:** C or better in ACCT 301

Application of generally accepted accounting principles to various areas such as accounting for corporations, long-term investments in securities, bonds, pension costs, leases, etc.

#### **ACCT 311 Cost Accounting**

3c-01-3sh

**Prerequisite:** C or better in <u>ACCT 202</u>

Cost accounting methods and procedures including cost accumulation under job order cost system and process cost system, cost allocation, budgeting, and accounting for spoilage, joint, and by-products. The planning and control aspect of cost accounting is emphasized.

#### **ACCT 321 Federal Taxes**

3c-01-3sh

**Prerequisite:** C or better in ACCT 202

Acquaints the student with federal income tax laws as they apply to individual taxpayers and partnerships. (Offered as ACCT 421 prior to 1999-2000)

#### **ACCT 399 Cooperative Education II**

0c-0l-3sh

**Prerequisites:** ACCT 299; completion of 85 credits with an overall GPA of 2.0; a GPA of 2.3 in ACCT 301, 302, and 311 with at least a "C" in each course; and approval of the cooperative advisor

The subsequent course in cooperative education is designed to combine classroom theory with practical application through job-related experiences. Cooperative Education students are actively employed in the accounting area in business, industry, government, and a variety of organizations and agencies with a work focus which relates to their academic training and career objectives in accounting.

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#### **ACCT 401 Advanced Accounting**

3c-01-3sh

**Prerequisite:** ACCT 302

A study of accounting issues of specialized nature including partnerships, organization and liquidation, agency and branch accounting, accounting for business combinations, preparation of consolidated financial statements, accounting for government and not-for-profit entities, accounting for estates and trusts, and receivership accounting.

#### **ACCT 412 Advanced Cost Accounting**

3c-01-3sh

**Prerequisite:** C or better in ACCT 311

A study of budgets, standard costs, direct and absorption costing, analysis of cost variances, and extensive analysis of various cost control and profit planning programs.

#### Back to Top

#### ACCT 422 Federal Taxation of Corporations, Partnerships, Estates, and Trusts

3c-0l-3sh

Prerequisites: ACCT 302 and ACCT 321

An advanced course in federal income taxation as it applies to taxpayers other than individuals. Covers the tax treatment of those property transfers subject to federal and state gift and death taxes. The tax planning aspect of the various course topics as well as tax research methodology are also discussed.

#### **ACCT 431 Auditing**

3c-01-3sh

Prerequisite: ACCT 302

A study of auditing theory and practical application of auditing standards and procedures to the review, testing, and evaluation of accounting controls and to the verification of transactions and balances to express an opinion in an audit report on the fairness of financial statements' presentation.

#### **ACCT 435 Internal Auditing**

3c-01-3sh

**Prerequisite:** ACCT 431

Covers four issues: foundations for internal auditing, administering internal auditing activities, operational areas, and special relationships and evaluation for internal auditing.

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#### **ACCT 441 Accounting for Government and Nonprofit Organizations**

3c-01-3sh

Prerequisite: ACCT 302

Presents the views of authoritative professional organizations as to desirable standards of accounting and reporting for governmental and nonprofit entities. Topics include budgeting and budgetary accounts, accounting for various funds, the general fixed assets group of accounts, the financial reporting process, and application of the principles of fund accounting in specific areas.

#### **ACCT 451 Seminar in Accounting Standards**

3c-01-3sh

Prerequisite: ACCT 302

A study of professional standards having authoritative support in the field of accounting. APB opinions, FASB interpretations, and SEC Accounting Series Releases are discussed.

#### **ACCT 461 Accounting Systems**

3c-01-3sh

Prerequisites: ACCT 302, ACCT 311, IFMG 300

A study of concepts, principles, and procedures of accounting system design, installation, implementation, auditing, and maintenance in relating to system objectives, information requirements, constraints, system elements, and considerations on a computerized basis.

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#### **ACCT 471 International Accounting**

3c-01-3sh

**Prerequisites:** ACCT 311 for Accounting majors or ACCT 300 for non-Accounting majors

A comparative study of the effects of differences in cultural and business philosophies on national and international accounting policies. Specific financial accounting controversies, such as accounting for transactions involving foreign

currency exchanges, will be discussed. International management accounting topics will include international transfer pricing policies, performance evaluations of multinational managers and divisions, and management information systems. International aspects of financial planning, auditing, and taxation practices will also be reviewed.

#### **ACCT 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

#### **ACCT 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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#### **ACCT 488 Internship in Accounting (Industrial and Government)**

6sh

**Prerequisites:** Consent of departmental chairperson and dean, Eberly College of Business and Information Technology; cumulative 2.75 GPA and 3.0 GPA in accounting courses

Practical experiences, generally totaling 400 hours, in an industrial or government accounting setting.

#### **ACCT 493 Internship in Accounting (Public)**

6sh

**Prerequisite:** Consent of departmental chairperson and dean, Eberly College of Business and Information Technology; 3.00 cumulative GPA and 3.00 GPA in accounting courses

Practical experiences, generally totaling 400 hours, with a public accounting firm. Last modified at 11:13 PM on 09/22/2000.

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2000-2001 Undergraduate Catalog Indiana, Pennsylvania 15705

# Accounting

#### **Department of Accounting**

**Eberly College of Business and Information Technology** 

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

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3c-01-3sh

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#### **ACCT 202 Accounting Principles II**

3c-01-3sh

**Prerequisites:** C or better in <u>ACCT 201</u>, sophomore status

Covers accounting principles and procedures for payroll, partnerships, corporations, long-term liabilities and investments, and manufacturing firms with a general accounting system. Introduces the student to cost accounting systems, financial statements analysis, budgeting, and use of accounting information in making managerial decisions.

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var-1-3sh

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The initial experience in a program designed to combine classroom theory with practical application through jobrelated experiences. Students are actively employed in the accounting area in business, industry, government, and a variety of organizations and agencies with a work focus which relates to their academic training and career objectives in accounting. The student is expected to complete subsequently ACCT 399 or an internship.

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**Prerequisite:** C or better in <u>ACCT 202</u>

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#### **ACCT 302 Intermediate Accounting II**

3c-01-3sh

**Prerequisite:** C or better in ACCT 301

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Cost accounting methods and procedures including cost accumulation under job order cost system and process cost system, cost allocation, budgeting, and accounting for spoilage, joint, and by-products. The planning and control aspect of cost accounting is emphasized.

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Covers four issues: foundations for internal auditing, administering internal auditing activities, operational areas, and special relationships and evaluation for internal auditing.

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Prerequisite: ACCT 302

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Prerequisites: ACCT 302, ACCT 311, IFMG 300

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**Prerequisites:** ACCT 311 for Accounting majors or ACCT 300 for non-Accounting majors

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currency exchanges, will be discussed. International management accounting topics will include international transfer pricing policies, performance evaluations of multinational managers and divisions, and management information systems. International aspects of financial planning, auditing, and taxation practices will also be reviewed.

#### **ACCT 481 Special Topics**

var-1-3sh

**Prerequisite:** As appropriate to course content

Special topics courses are offered on an experimental or temporary basis to explore topics that are not included in the established curriculum. A given topic may be offered under any special topic identity no more than three times. Special topics numbered 481 are primarily for upper-level undergraduate students.

#### **ACCT 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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#### **ACCT 488 Internship in Accounting (Industrial and Government)**

6sh

**Prerequisites:** Consent of departmental chairperson and dean, Eberly College of Business and Information Technology; cumulative 2.75 GPA and 3.0 GPA in accounting courses

Practical experiences, generally totaling 400 hours, in an industrial or government accounting setting.

#### **ACCT 493 Internship in Accounting (Public)**

6sh

**Prerequisite:** Consent of departmental chairperson and dean, Eberly College of Business and Information Technology; 3.00 cumulative GPA and 3.00 GPA in accounting courses

Practical experiences, generally totaling 400 hours, with a public accounting firm. Last modified at 11:13 PM on 09/22/2000.

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# Study Abroad and Comparative Literature (Foreign Language)

#### **College of Humanities and Social Sciences**

Credit designation below title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (sh) semester hours of credit per semester.

FNLG 100 FNLG 121 FNLG 391 FNLG 392 FNLG 393 FNLG 394 FNLG 395 FNLG 396 FNLG 421 FNLG 482

#### **FNLG 100 Study Abroad**

var-1-12sh

Registration mechanism and limited credit arrangement as provided in preapproval process for Study Abroad programs coordinated through the International Affairs Office.

#### **FNLG 121 Humanities Literature**

3c-01-3sh

Introduces the student to works, authors, and genres of general literary significance in the Western tradition. Not organized historically but trains the student in the critical reading and appreciation of literature from the present and other periods. Authors, works, and themes are studied with respect to cultural context, aesthetic form, and thematic significance. Taught in English. Substitutes for <u>ENGL 121</u>.

#### FNLG 391 Selected Works from the Medieval Period

3c-01-3sh

Prerequisites: ENGL/FNLG 121 or ENGL 122, ENGL 202

Comparative study of selected works of major importance per se and as representative of major themes of medieval European literature. Also listed as

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#### FNLG 392 Renaissance/Baroque/Classical

3c-0l-3sh

Prerequisites: ENGL/FNLG 121 or ENGL 122, ENGL 202

Literary works representing various genres from both periods are studied and compared for their themes, motifs, and stylistic features, applying principles set forth in H. Wolffin's *Renaissance and Baroque*.

#### **FNLG 393 Romanticism**

3c-01-3sh

Prerequisites: ENGL/FNLG 121 or ENGL 122, ENGL 202

The study of the principal authors and works of late eighteenth- and early nineteenth-century Europe and the unique national characteristics of the Romantic movement in lyric, drama, and prose. Also listed as <u>ENGL 393</u>.

#### FNLG 394 Nineteenth-Century European Novel in Translation

3c-01-3sh

Prerequisites: ENGL/FNLG 121 or ENGL 122, ENGL 202

A survey of major nineteenth-century European novels in translation (excluding English), emphasizing the rise of

realism and naturalism and the cultural, historical, social, and artistic relationships between the various national literatures. Also listed as ENGL 394.

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#### FNLG 395 Selected Writers from 20th-Century Europe

3c-0l-3sh

Prerequisites: ENGL/FNLG 121 or ENGL 122, ENGL 202

Comparative study of selected works of major importance per se or as representatives of major trends in twentieth-century literature. Also listed as <u>ENGL 395</u>.

#### **FNLG 396 The Literature of Emerging Nations**

3c-01-3sh

Prerequisites: ENGL/FNLG 121 or ENGL 122, ENGL 202

A comparative study of a selection of literature written in major European languages but originating in the nations of the developing world. Works will be mainly prose fiction (although essay, theater, and poetry may be included) and reflect a diversity of geographical, cultural, and prior colonial circumstances. Also listed as <u>ENGL 396</u>.

#### **FNLG 421 Language and Society**

3c-01-3sh

Considers salient facts of language and its role in society and culture. Language families, linguistic change, and reciprocal influences of culture and language are presented.

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#### **FNLG 482 Independent Study**

var-1-3sh

**Prerequisite:** Prior approval through advisor, faculty member, department chairperson, dean, and provost's office Students with interest in independent study of a topic not offered in the curriculum may propose a plan of study in conjunction with a faculty member. Approval is based on academic appropriateness and availability of resources.

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