



Indiana University of Pennsylvania

Undergraduate Catalog, 2006-2007

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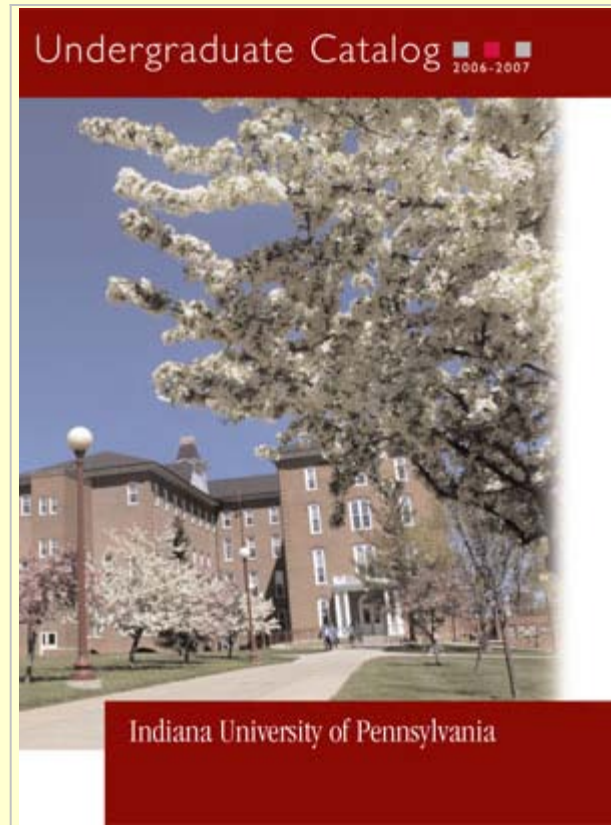
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Correspondence regarding this site should be sent to the [Registrar's Office](#) at registrars-office@iup.edu. Please see [IUP's statement](#) regarding pages that do not officially represent the university.

President's Message

For more than 130 years, Indiana University of Pennsylvania has been building successful futures.

IUP is a university that will make a difference in your life, be a partner in your academic success, and provide an environment that challenges your assumptions and champions your efforts.

With 150 different majors at the bachelor's level, forty master's degrees, and seven doctoral programs, IUP leads the way in versatility and variety in academic options. IUP is the only university classified by the Carnegie Foundation as doctoral/research in the State System of Higher Education, with cutting-edge research done not only by professors but by students at all levels.

IUP stretches the demands of the traditional academic environment with honors programs in almost every major as well as the Robert E. Cook Honors College, the only one of its kind in the Pennsylvania State System of Higher Education.

IUP regularly places its students in rigorous and prestigious internship programs all over the world, from the New York Stock Exchange to the U.S. Centers for Disease Control and Prevention to the European Parliament. IUP's global partnerships offer exchange opportunities in all disciplines in every corner of the world.

IUP's Liberal Studies requirement, emphasizing communication skills and analytical thinking, ensures that all our students are prepared to make a meaningful life as conscientious citizens of our world, as well as to make a living.

Our faculty regularly receives national and international recognition for its research and leadership roles in various fields of study. More than respected researchers, IUP faculty members remain dedicated to teaching excellence. Strong academic programs are complemented by the university's successful athletics programs. Longstanding excellence in the fine arts creates a campus life rich in cultural and entertainment opportunities.

Students and faculty enjoy state-of-the-art classrooms, laboratories, and technology, including wireless access throughout the campus, even in the outdoor spaces.

As a result of our intense instruction, involved faculty, and hands-on experience in laboratory, field, and internship programs, IUP students strive for and achieve levels of excellence that make them some of the most attractive and sought-after graduates by employers.

As IUP's twenty-fourth president, I want to welcome you to IUP. I firmly believe that IUP's quality, affordability, and excellence make this university the perfect fit for your collegiate and career expectations. Welcome aboard and good luck!

Tony Atwater, President



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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 Pennsylvania 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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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 fourteen thousand, with students from thirty-seven

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 361 Colleges* and *The Best 237 Business Schools*, both published by *Princeton Review*; *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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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 www.iup.edu. 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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Accreditation

IUP is a state-owned institution for higher education and a member of the Pennsylvania State System of Higher Education. It holds universitywide regional accreditation through the

Middle States Commission on Higher Education
3624 Market Street, Philadelphia, PA 19104
Telephone: 267-284-5000
Website: www.msche.org

In addition, IUP programs have earned specialized accreditation from the following organizations:

- Accreditation Commission for Programs in Hospitality Administration
- Accrediting Board for Engineering and Technology
- American Association for Health Education
- American Culinary Federation
- American Dietetic Association
- American Psychological Association
- American Speech-Language Hearing Association
- Association to Advance Collegiate Schools of Business
- Commission on Accreditation of Allied Health Education Programs
- Commission on Accreditation for Dietetic Education of the American Dietetic Association

- Commission on Collegiate Nursing Education
- Council for Exceptional Children
- Council on Education of the Deaf
- National Association for Sport and Physical Education
- National Association of School Psychologists
- National Association of Schools of Art and Design
- National Association of Schools of Music
- National Association of Schools of Theatre
- National Council for Accreditation of Teacher Education
- National Environmental Health Science and Protection Accreditation Council

See the website www.iup.edu/academicaffairs/resources for the most current listing.

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Buildings and Grounds

In 1875, the main campus consisted of 12 acres and one building, John Sutton Hall. Since then, with constant growth, the university now consists of 354 acres and seventy-five major buildings.

In addition to the main campus, IUP operates residential, educational facilities at the Punxsutawney Regional Campus in Jefferson County. The campus totals approximately eight acres consisting of two sites - a living-learning center at the West End Campus, including a new apartment-style residence hall for approximately 200 students - and two buildings at the Academy of Culinary Arts.

The Indiana University of Pennsylvania Northpointe Regional Campus in Armstrong County provides facilities for specialized electro-optics training along with various other undergraduate and graduate-level courses. Northpointe is a commuter-only campus.

The Monroeville Center Regional Facility is a graduate education center located in Monroeville, Pa., and provides various graduate-level programs for traditional and nontraditional students.

The Student Cooperative Association owns and operates the Hadley Union Building complex, which is located adjacent to the main campus. The facility contains a large fitness center, several handball and racquetball courts, a food court and catering area, multiple computer lounges, meeting rooms, and the IUP Bookstore. In addition to the main campus facility, the Student Cooperative Association also owns and maintains a 280-acre outdoor recreational park that consists of nature trails, a meeting lodge, a ski hut, softball fields, and an exercise-station trail.

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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 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 an alumni base that comprises more than 113,000 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 Board of Directors, Foundation for IUP Board of Directors, 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 websites.

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University Organization

The university's administration comprises four divisions: Academic Affairs, Administration and 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 two divisions follows.

Administration and Finance Division

The Division of Administration and Finance (A/F) provides internal and external constituents of the university with the highest quality services in the most supportive and cost-effective manner. In contributing toward the fulfillment of IUP's mission of teaching, research, and public service, the A/F Division is responsible for the development, stewardship, enhancement, integrity, and stability of the university's fiscal, human, and physical resources.

Major responsibilities of the division are organized and operated from the departments of Facilities Management, Fiscal Affairs, Human Resources, University Police and Public Safety, and Purchasing and Central Stores.

Institutional Advancement Division

The advancement arm of the university, the Institutional Advancement Division brings together several functional areas. The communications, governmental relations, alumni relations, university events, and development areas stimulate positive regard for the university and acquire new resources. The departments feature the excellence and achievement of faculty, students, staff, and alumni and engage people in the life of the university. Staff members 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 volunteers and staff members are passed to the university to improve the educational and learning environment.

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The Regional Campuses

Patricia D. Scott, Dean, Northpointe Regional Campus

Richard J. Muth, Assistant to the Dean, Northpointe Regional Campus

Valarie J. Trimarchi, Dean, Punxsutawney Regional Campus

IUP operates two regional campuses, one in Punxsutawney, twenty-eight miles north of the Indiana campus, and one at Northpointe in Freeport, thirty-eight miles west of the Indiana campus. The first regional campus was established in 1962 in Punxsutawney. The following year, the Armstrong campus in Kittanning was opened. In the summer of 2005, the Armstrong Campus relocated to a new facility at Northpointe and became the Northpointe Regional Campus. The Punxsutawney Regional Campus accommodates three hundred students, and the Northpointe Regional Campus accommodates three hundred to three hundred fifty students.

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

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The Northpointe Regional Campus is a nonresidential facility with the primary mission of meeting the workforce-related educational needs of Armstrong County and surrounding areas in manufacturing technologies, computer-based training, and health-related disciplines. It is the workforce engine for the county and surrounding communities, providing citizens of the region with access to higher educational opportunities that foster economic, professional, and workforce development. Both credit and noncredit programs are offered at the Northpointe Campus, with special emphasis on associate degrees, graduate degrees, certificates, and liberal studies courses for the first-year experience for commuter students.

Special degrees, such as the A.S. in Electro-Optics and the A.A.S. in Electro-Optics, are offered only at the Northpointe Campus. Graduate degree programs can be completed entirely at the Northpointe Campus. Undergraduate prospective students who wish to attend the Northpointe Regional Campus may apply for admission by requesting an application from the Admissions Office, while prospective graduate students who wish to attend the Northpointe Campus may apply for admission by requesting an application from the School of Graduate Studies and Research.

In addition, requests for applications may be made to the Office of the Dean of the campus. The address follows:

Northpointe Regional Campus

IUP

167 Northpointe Boulevard

Freeport, PA 16229

Telephone: 724-294-3300

Toll-Free: 800-889-0872

Fax: 724-294-3310

E-Mail: northpointe-campus@iup.edu

Website: www.iup.edu/northpointe

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Punxsutawney Regional Campus

The Punxsutawney Regional Campus offers a first-year experience where students have the opportunity to begin their university studies in a small, personalized setting. The students are provided with a range of first-year, Liberal Studies classes that are designed to meet the needs of the entering student regardless of academic major. The smaller environment allows students to interact with faculty, staff, and other students in an environment that fosters individual growth and achievement. Students from across the Commonwealth of Pennsylvania as well as other states attend the Punxsutawney Campus, sharing in a diverse living-learning experience. After successful completion of two semesters, earning 21 undergraduate semesters hours with at least a 2.0 GPA, students are eligible to enroll for the completion of their degree on the Indiana Campus.

The Punxsutawney Regional Campus has a living-center for those students who prefer a residential college experience. Students are free to choose their own housing from all available sources, including the living-center and private homes or apartments within the community. A list of off-campus housing options can be obtained by contacting the campus.

The campus has its own dining facility where meals are served seven days a week when the university is in session. Living-center students, as well as students living within the community, are encouraged to participate in the dining hall program. The same food service contractors serving the Indiana campus operate the Punxsutawney dining program.

To receive an application, or to request additional information on the Punxsutawney Regional Campus, please contact:

Punxsutawney Regional Campus
IUP
1010 Winslow Street
Punxsutawney, PA 15767
Telephone: 814-938-6711
Website: www.iup.edu/punxsutawney

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Programs of Study

The regional 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 regional campuses is eligible to attend 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 credits.

Faculty advisors and administrators at the regional 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 regional campuses instead of the Indiana campus may apply for admission by requesting an application from the Admissions Office or from the dean of either regional campus.

Fees

Punxsutawney Regional Campus students pay same basic fees as Indiana campus students. Northpointe Regional Campus commuter students do not have to pay activity fee and health services fee.

Rules and Regulations Concerning Student Behavior

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

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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 August 1.

Requests for applications and catalogs should be addressed to

Office of Admissions
Indiana University of Pennsylvania
Sutton Hall, Suite 117
1011 South Drive
Indiana, PA 15705
1-800-442-6830 or 724-357-2230

An on-line application for admission is available at www.iup.edu/admissions.

The Admissions Committee, giving equal opportunity to all students, will take the following criteria into consideration when reviewing each application: grades and courses taken, class rank, SAT or ACT scores, high school counselor 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 transfer applicants, veterans, or applicants who have graduated from high school more than two years before applying. However, transcripts from high school and colleges previously attended 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; however, it is in the student's best interest to do so.

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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Freshman Applications

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 (SAT code: 2652, ACT code: 3704) 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 \$35 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, Sutton Hall, Suite 117, 1011 South Drive, Indiana, PA 15705.

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Transfer Admissions

A student who has been attending another institution of higher education and wishes to transfer to IUP must submit an application with the \$35 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 are reviewed on the basis of academic college coursework attempted or completed. This coursework should be nondevelopmental and nontechnical in nature and be taken from an institution which is accredited by one of the six regional accrediting agencies. Transfers are required to have at least a cumulative 2.0 GPA on a 4.0 scale (C average) from all schools previously attended and have met the minimum requirements established by the academic department to which the student is applying. Teacher education and nursing programs require increased standards for admission and additional information (Praxis I scores for education). Contact the Office of Admissions for specifics. In addition, the admissions decision considers other evidence of students' performance and ability to be a successful college student.

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, credits, 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 grade of C or higher 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 a minimum of 48 credits 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.

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Residency Requirements for Awarding of Degrees

The university requires that at least 45 credits, generally including the last 30 credits in a student's curriculum, must be earned by enrollment in courses at IUP; 15 of these credits must be in the student's major. It should also be noted that for community college graduates a maximum of 60 credits are transferable to this institution for the purpose of fulfilling a specific program of study. Excess credits, 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 in this catalog entitled "Criteria Governing Continuance at IUP."

The university accepts credits 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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Part-Time Study (Non-degree)

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 or on-line at www.iup.edu/continuing-ed 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 \$35 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 credits and must apply for degree candidacy for formal admission to a degree program before 30 IUP credits 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 follows:

High School Diploma or GED	15 IUP credits	2.0 GPA
Veteran (DD-214 required)	9 IUP credits	2.0 GPA
Transfer (with 12 or more credits)	9 IUP credits	2.0 GPA
Transfer (with 11 or less credits)	15 IUP credits	2.0 GPA

Note: A student who has applied and has been admitted by the Office of Admissions to a regional 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 credits per semester. For further information, contact the School of Continuing Education.

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Postbaccalaureate Studies (Undergraduate)

The Postbaccalaureate 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 \$35 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. However, a student may complete one or more secondary majors while earning the primary degree.

Teacher Certification

A college graduate 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 3.0 cumulative GPA and successful Praxis I (PPST) scores are required for consideration for admission. Applicants must also meet the requirements of Step 1 of the 3-Step Process for Teacher Education which

can be found in the College of Education and Educational Technology section of this catalog or at the website www.iup.edu/education.

A Pennsylvania-certified teacher who wishes to add a new area of certification may apply to the School of Continuing Education for admission as a postbaccalaureate student.

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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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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.

Undergraduate students who have withdrawn from the university, or were not enrolled during the previous regular semester, must complete an Application for Readmission, available by one of the following options:

- By going to the Office of the Registrar, Clark Hall Lobby
- 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 mailed to you
- By downloading a form from the Registrar’s Office website at www.iup.edu/registrar/forms.
- By logging on to [URSA](#) and selecting the Apply for Readmission to IUP option under the Student Services and Financial Aid section

The readmission deadline for the spring semester is December 1 and for the fall semester is July 20.

Requests for readmission for academically dismissed students or first-semester and transfer students who withdraw from the university voluntarily during their first semester of full-time enrollment will be forwarded to the Office of the Dean of the college in which the student was enrolled at the time of dismissal or of total university withdrawal for a decision on the student’s readmission.

Decisions for readmission of students in university probationary or dismissed status, regardless of whether the student was dismissed by the university or the student voluntarily withdrew, are the responsibility of the Academic Standards Officer of the college the student wishes to enter. If the student is seeking admission to a new college, the officer of the new college will consult with the officer of the former college before making a decision. The Registrar’s Office will officially change the major based on the officer’s readmission letter to the student.

All outstanding financial obligations to the university must be met before the 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.

Readmitted students who have not been enrolled for two years or more may petition their college dean for application of the Cancelled Semester Policy, which provides for cancellation from the cumulative record of the effects of one semester below a GPA of 2.0. Students who have been academically dismissed and separated from the university for five consecutive calendar 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 cancelled or the fresh start policy will take effect. See the Academic Policies section of this catalog for more information on these policies.

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 on your prior academic record.

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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,

satisfy Act 48 requirements, 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 viewed at the website www.iup.edu/summer. Contact the Office of the Registrar, Clark Hall (toll-free number: 888-800-3190), for more information.

Attendance at summer sessions undergraduate courses is open to all students but does not constitute admission or readmission for continuing registration in the fall and/or spring semesters. IUP students with less than a 2.0 cumulative GPA must receive approval from their dean's office before attending summer courses. Non-IUP students 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 should apply to the Registrar's Office by the preceding July 20 and by December 1 for the spring semester.

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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 hours per week). 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.

Students can also apply for provisional admission to an IUP undergraduate program through the ALI. Contact the director at 724-357-6944 or e-mail ali-inquiries@iup.edu.

Cocurricular social and cultural programs are offered to all students. For further information, visit our website at www.iup.edu/ali.

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Billing and Payments

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IUP Refund Policy

Summer Sessions Fees (based on Summer, 2006)

Basic Fee

The basic fee for undergraduate students enrolled for any of the regular summer sessions is \$200 per credit for in-state students and \$501 per credit for out-of-state students.

Summer Dining Plan Fees

The five-week session dining plan fees are:

Plan A - 19 meals a week	\$302 (or \$60.40/week)
Plan B - Any 14 meals a week	\$284 (or \$56.80/week)
Plan D* - Any 10 meals a week	\$272 (or \$54.40/week)
Plan G* - Any 5 meals week	\$155 (or \$31.00/week)

*Off-campus students only

Summer Instructional Fee

All students are charged an instructional fee to support academic equipment, library resources, maintenance and repair projects, recreational facilities, and the advancement of technologies. During the summer, all students are charged 10 percent of the in-state tuition rate.

Summer Registration Fee

All students are charged a registration fee of \$32 for the summer term.

Summer Residence Hall Fee

The summer university dorm room fees are \$103 a week for a double-occupancy room and \$149 a week for a single room. Students are charged for each session according to the number of weeks they require housing. Resident students can select from two dining plans, 19 meals per week or 14 meals per week.

Summer Student Activity Fee

This fee in the summer session is \$12.50 per credit (up to a maximum \$150).

Summer Student Health Fee

There is no mandatory health fee in the summer. All summer student health fees are optional. For further information, contact the health center at 724-357-6475 or health-inquiry@iup.edu.

Summer Technology Fee

This fee is assessed to all students per summer session as follows:

<i>Pennsylvania Residents:</i>	\$31
<i>Nonresident Students:</i>	\$47

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Special Fees

Damage Fee

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

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.

Portfolio Application/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 \$75 payable to the Commonwealth of Pennsylvania is charged to cover the administrative and recording costs for the issuance of a teaching certificate by the Department of Education. A \$35 fee is charged for students applying for out-of-state certification.

Teacher Placement Fee

The College of Education and Educational Technology provides a placement service for students enrolling in pre-student teaching. This fee of \$50 is used to provide students with bus transportation to the initial field placement and to cover other costs associated with this service.

Transcript Fees

Applications for transcripts can only be made in writing to the registrar, either by U.S. mail, fax, or on forms available at the Registrar's Office in Clark Hall. Forms may also be downloaded from the Registrar's Office website at www.iup.edu/registrar/forms. Such requests must include

1. Your full name, Social Security number, and student user ID number at the time 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) to be sent.

A fee is not charged for an official transcript. Special handling charges will be assessed for express or fax transcript service. For more information, see the website www.iup.edu/registrar/trans or call 724-357-2217.

Official transcripts (containing signature and university seal) will not be issued directly to students. The university will attempt to mail official transcripts within a reasonable time. However, in the event of its failure to do so, in no case is the university responsible for consequential damages.

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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.

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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Delinquent Accounts

Students are not permitted to enroll for any semester, receive transcripts, or graduate until all account balances have been paid in full. Also, credit will not be certified to any other institution 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 Office of the Bursar to settle all unpaid accounts.

IUP Refund Policy

For a copy of IUP's Refund Policy or a sample refund calculation, please contact the Office of the Bursar at 724-357-2207. The Refund Policy is also available on their website at www.iup.edu/bursar.

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Financial Aid

The Financial Aid Office, located in 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, scholarships, 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 (6 credits per term) except for the Federal Pell Grant program and Federal Work Study 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, Postbaccalaureate Teacher's Certification program, or Postbaccalaureate Second Undergraduate Degree program.
5. Not be in default and must not have failed to make satisfactory arrangements to repay any Federal Student Loans.
6. Not owe a repayment on a Federal Pell Grant or Federal Supplemental Educational Opportunity Grant.
7. Not have borrowed in excess of any Federal Loan limits.
8. Be registered with the Selective Service Administration, if required.
9. Have a valid Social Security Number.

Students must submit a *Free Application for Federal Student Aid* 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. Meet the regulations and repayment schedules of student loans.
4. Inform the Financial Aid Office of any grants, scholarships, or loans received from outside organizations.
5. Inform the Financial Aid Office of any information that has changed since applying for aid.
6. Understand the satisfactory academic progress requirements for maintaining financial aid eligibility.
7. Use financial aid funds for educational purposes only.

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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.

Employment

The Student Employment Center is available to assist students in finding job opportunities on campus or in the local community. Students may gain access to a listing of available positions by doing any of the following:

- asking to review the employment binder located in the Student Employment Center in the Office of Career Services, 302 Pratt Hall
- reviewing the bulletin board located outside the office
- accessing the on-line job listing at www.iup.edu/sec (24-hour accessibility)

The Student Employment Center also assists students in finding summer employment. During the spring semester, a Summer Job Fair is conducted, providing IUP students the opportunity to meet with representatives from a variety of organizations (i.e., camps, amusement parks, resorts, recreation areas, and restaurants, to name a few). Representatives from local and out-of-state organizations attend the fair. Students may gain access to a listing of seasonal job opportunities by visiting the Student Employment Center's website or by stopping by the office to review literature provided by these organizations.

Students may be employed on campus for up to twenty-five hours per week when classes are in session and up to forty hours per week during breaks, including summer. When classes are in session, most students work an average of ten to twelve hours per week. Students are paid every two weeks for the hours they have worked. Generally, undergraduate students are paid at the minimum wage rate, which is currently \$5.15 per hour.

All students are eligible to work on campus.* There are two basic types of funding sources: (1) Federal Work Study Program (FWSP) and (2) University Employment (UE). Eligibility for FWSP is based upon demonstrated financial need as determined from the *Free Application for Federal Student Aid* (FAFSA), which must be completed every year. Inquiries about eligibility for FWSP should be directed to the Financial Aid Office. Students who do not demonstrate financial need may seek UE.

A FWSP award may affect your eligibility for student loans. For more specific information on how a FWSP award would impact your loan eligibility, inquire at the Financial Aid counter in the lobby of Clark Hall or by e-mail at financial-aid@iup.edu.

Off-campus employment opportunities vary by organization, as do the hourly wages and hours worked per week.

*International students' circumstances may vary. For more information, please consult Student Payroll Services (724-357-2510, G-8 Sutton Hall).

Service Learning Work Study 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 Service Learning Center, which assists students in obtaining these opportunities, is part of the Office of Career Services located in 302 Pratt Hall.

PHEAA State Work Study—The employment program provides Pennsylvania students with employment opportunities in high technology and community service fields. Students can gain career-related on-the-job work experience. 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 the PHEAA website at www.pheaa.org.

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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 6 credits each semester. There are no principal or interest payments until nine months after the student ceases half-time attendance (6 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, eligibility will be reviewed for you. First-time borrowers will also receive a Federal Stafford Loan Master Promissory Note (MPN) 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. An academic year at IUP is defined as the fall, spring, and summer terms. Subsidized Federal Stafford Loans are awarded on the basis of financial need as determined by the FAFSA and require no payment of interest or principal until six months after the student ceases half-time enrollment (6 credits per term). Unsubsidized Federal Stafford Loans require payment or capitalization 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. Lenders can provide current interest rate information.

Federal Stafford Loan entrance counseling must be completed by first-time borrowers at IUP before funds can be released.

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 preapproval 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 starting sixty days after the final check is issued. Lenders can provide current interest rate information.

Alternative Loans—A wide variety of privately financed educational loan programs are available. Each of these programs offers unique terms and conditions that affect its availability in particular circumstances. Check the IUP webpage at www.iup.edu/financialaid for specific contact information.

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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 (FSEOG)—Federal Pell Grant-eligible students are considered for FSEOG. A *Free Application for Federal Student Aid (FAFSA)* with a receipt date of April 15 or earlier must be on file. Students who receive FSEOG must be enrolled for at least 6 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 April 15 to apply. First-time applicants are also required to complete a PHEAA information form. Academic progress guidelines require that a student earn 12 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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Scholarships

IUP 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 provide gift assistance to academically talented students and assist them in financing their educational expenses. Other than the admission application, no general application is required for consideration. Eligible students are automatically considered for scholarship opportunities. See the website www.iup.edu/scholarships for further information. Questions may be directed to the scholarship coordinator in the Financial Aid Office, 1090 South Drive, 200 Clark Hall, Indiana PA 15705; telephone: 724-357-2218; email: financial-aid@iup.edu.

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. The Financial Aid Office website provides a listing of various scholarship websites that will enable you to conduct searches on your own and to apply for these scholarships online. For complete information, students can visit www.iup.edu/financialaid/services/scholarships.shtm.

ROTC Scholarships—Two- and three-year on-campus scholarships are available to both male and female students who are enrolled in the Reserve Officers' Training Corps program. The scholarships pay for tuition, fees, and books (\$900 per year) and a monthly stipend (\$300-\$500 each 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 or by calling 1-800-IUP-ROTC.

PHEAA-Administered Scholarships and Special Programs—Pennsylvania residents have financial aid available in the form of grants, scholarships, special programs, work-study opportunities, or loan forgiveness. Different types of aid are available for both undergraduate and graduate study. To apply for any of these programs, students will need to complete and submit the *Free Application for Federal Student Aid (FAFSA)*. Some of these programs have submission deadlines that differ from federal programs. For complete information, Pennsylvania students can visit www.pheaa.org/specialprograms.

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, 724-357-2751.

Resident 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, including the Office of Housing and Residence Life website. The application process requires references 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 2.3 GPA. For further information, please contact present resident assistants or residence directors or the Office of Housing and Residence Life, B31 Clark Hall, 1090 South Dr., IUP, Indiana, PA 15705, 724-357-2696.

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

Pennsylvania National Guard Educational Assistance Program (EAP): Students who join the Pennsylvania Army National Guard are eligible for a 100-percent tuition grant through the EAP. Eligible students make a commitment to serve for six years in the Pennsylvania National Guard, serving one weekend a month and two weeks per year. In return, they receive ten semesters of 100-percent tuition if full time. Part-time students receive prorated tuition assistance. Applications and information are available in F6 Pierce Hall or by calling 717-861-8626 or 1-800-GO-GUARD.

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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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Veterans Benefits

The Veterans Affairs Office 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, and (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 credits 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 credits.

In addition to regular sources of financial aid, veterans and dependents of veterans may be eligible for VA benefits. For further information, veterans should contact the Veterans Counselor, 126 Clark Hall, IUP, Indiana, PA 15705, 724-357-3009.

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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 members 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, Students Rights Under the Family Educational Rights and Privacy Act, Student Technology Services, Computer Software Policy, and Wireless Communications Policy, are under the direction of the Vice President for Student Affairs.

Student Affairs Division Areas and Directors	Office of International Affairs
Admissions	New Student Orientation
Advising and Testing Center	Parking
African American Cultural Center	Student Conduct
Athletics	Student Cooperative Association
Career Services	Center for Student Life
Computer Software Policy	Student Rights/Directory Information
Center for Counseling and Psychological Services	Student Rights Under the Family Educational Rights and Privacy Policy
Department of Developmental Studies	University Computing Resources Policy
Financial Aid	Veterans Affairs
Health Services	Wireless Communications Policy
Housing and Dining Information	

Student Affairs Division Areas

Website: www.iup.edu/studentaffairs

E-mail: IUP-PAWS@iup.edu

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.

Vice President for Student Affairs: Rhonda H. Luckey

Interim Dean of Students: Terry Appolonia

Admissions: Rhonda H. Luckey, Interim Director of Admissions

Advising and Testing: Catherine M. Dugan, Director

African American Cultural Center: Carolyn D. Princes, Director

Athletics: Frank J. Condino, Director

Career Services: Mark E. Anthony, Director

Counseling and Psychological Services: Kim Weiner, Department Chair

Department of Developmental Studies: Carmy G. Carranza, Director

Financial Aid: Patricia C. McCarthy, Director

Housing and Residence Life: Michael W. LeMasters, Director

Office of International Affairs: Michele L. Petrucci, Director

Student Conduct: Kathleen R. Linder, Director

Student Cooperative Association: Dennis V. Hulings, Director

Center for Student Life: Terry Appolonia, Director

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Academic Policies

Note: Please see individual college sections for policies pertaining only to particular colleges and majors.

Academic Honors	Student Grade Appeal Policy
Academic Integrity Policy and Procedures	I (Incomplete) Policy
Academic Standards Policy	Inclement Weather Policy
Advanced Placement and Credit/Exemption Exams	Internship/Cooperative Education
Advisory Program	L (Late Grade, Continuing Course) Policy
Audit Policy	Midterm Grade Report Policy
Cancelled Semester Policy	Active Military Service Policy for Enrolled Students
Change of Major	Normal Credit Loads
Class Absence	Pass-Fail Policy
Class Disruptions	Prior Learning/Portfolio Assessment
Classification of Students	Quality Points and Determining GPA
Course Repeat Policy	Schedule Changes (Drop/Add)
Dual Baccalaureate Degrees	Sophomore Screening for Junior Status Approval
Final Examination Policies	Undergraduate Course Attendance Policy
Fresh Start Policy	University Policy on Semester Course Syllabi
Grade Change Policy	Withdrawal Policies
Grading Policies	

Classification of Students

In order to be classified as full-time for the fall, spring, or summer semester, undergraduate students must be currently enrolled in at least 12 credits.

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 credits during that period of enrollment (e.g., 1 credit in one week of instruction would equal the minimum full-time certification standard).

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

Freshmen	28 credits or less
Sophomores	29-56 credits
Juniors	57-90 credits
Seniors	91 credits or more

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.

Normal Credit Loads

A normal credit load is 15-17 credits. A student who wishes to schedule 18 or more credits 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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Schedule Changes (Drop/Add)

IUP's registration system, University Records and Systems Assistant (URSA), is characterized as one of continuous registration. 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. Each student is responsible for making appropriate computer transactions to ensure schedule accuracy. Deadlines for the opportunity to drop or add sections can be found in the academic calendar at the website www.iup.edu/ursa. Note that, while the department may enter permission to register for a section, the student must complete the actual registration transaction on URSA.

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 credits 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 (no credits) 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 grade-point averages.

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Internship/Cooperative Education

Students may apply for an internship if they have completed 57 credits 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 credits 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 credits is applicable to an undergraduate degree program from any combination of co-op and internship experiences.

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Prior Learning/Portfolio Assessment

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 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 credits 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.

Policy: 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.

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 credits 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. Credits earned through portfolio assessment may not apply as residency credit for the purpose of awarding degrees.
5. Credits 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 credits 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 assistant 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 credits, and the indication that credit was earned through Portfolio Assessment will be recorded on the academic record.

Procedures

1. Student meets with the assistant dean of the School of Continuing Education to determine the feasibility of earning credits 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 of the School of Continuing Education. 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 assistant 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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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 members advise students on academic achievement, dropping courses, changing curriculum, student activities, study schedules, and career options.

Change of Major

For students changing majors (or minors) in the College of Education and Educational Technology or in 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 cumulative 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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Dual Baccalaureate Degrees

A student who has earned a minimum of 28 undergraduate credits from IUP and is in good academic standing may apply to pursue a second baccalaureate degree concurrently with the first. This application must be submitted to the dean of the college in which the major program of study for the second baccalaureate degree is housed. If admitted to a second baccalaureate degree program, the student must designate one of the two degree programs to be primary. To receive both degrees at graduation the student must earn at least 30 credits beyond the requirements of the designated primary program of study. The student must earn a minimum of 150 credits to receive both degrees concurrently. Furthermore:

- a. The student may not be graduated until both the degrees are completed.
 - b. All requirements for the curriculum of each degree must be satisfied.
 - c. A course required in both degree programs does not have to be repeated for the second degree.
 - d. All university requirements such as minimum GPA and number of residency credits taken at IUP in the major must be met for each degree separately.
 - e. Should a student elect to discontinue the pursuit of receiving two baccalaureate degrees simultaneously and decide to apply for graduation with one degree, the student will be bound to the second baccalaureate degree requirements if a later return to IUP is desired to pursue another undergraduate degree.
-

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 credits 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.

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. Semester syllabi may be distributed in hard copy or electronically.

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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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 credits.
4. Each policy must not penalize students who add the class during the regular or specified university drop-add period and must allow those students to make-up work missed prior to adding the class.

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.

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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 (Indiana), 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.

Quality Points and Determining GPA

Grades and Quality Points

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	Excellent	4 quality points/credit
B	Good	3 quality points/credit
C	Average	2 quality points/credit
D	Passing	1 quality point/credit
F	Failing	0 quality points/credit
P	Passing	0 quality points/credit (for credit courses only) (see policy explanation)
S	Satisfactory	0 quality points/credit (for zero-credit courses only)
U	Unsatisfactory	0 quality points/credit (for zero-credit courses only)

Other Designations (carrying no quality points):

AUD	Audited course	
EXM	Examination	
FOL	Portfolio Assessment	
I	Incomplete	For more information, see policy explanation.
L	Late Grade/Continuing Course	For more information, see policy explanation.
OL	Other Location	
Q	Total Semester Withdrawal	Used prior to 2002 when a student had totally and officially withdrawn from the university for a given semester.
R	Research in progress	(graduate thesis/dissertation only)
TR	Transfer	
XMT	Exemption	
W	Withdrawal	For more information, see policy explanation.
*	Grade not reported by instructor	No grade information was reported by the end of the normal grading period.

Grades followed by the designations below indicate the application of a policy which has amended the student's cumulative grade-point average.

.	Institutional Credit (credit counts toward enrollment status, but does not count toward graduation or in GPA calculation)
..	Cancelled Semester (see policy explanation)
*	Fresh Start (see policy explanation)

Determining GPA

Cumulative Grade Point Average (CGPA) is determined by multiplying the credits 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 credits attempted.

Academic Honors

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

Provost's Scholar

Provost's Scholars are recognized annually. At the start of the Fall semester, any undergraduate student who meets the following requirements is eligible to be named a Provost Scholar:

- A current junior with a minimum of 45 credits earned (completed, graded) at IUP
- A cumulative GPA of 3.50 or higher
- Must not have received this award previously (recognition is given only once)

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 credits 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 GPA

Magna cum laude—3.50 to 3.74 cumulative GPA

Summa cum laude—3.75 to 4.00 cumulative GPA

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

With Honor—3.25 to 3.49 cumulative GPA

With High Honor—3.50 to 3.74 cumulative GPA

With Highest Honor—3.75 to 4.00 cumulative GPA

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Grading Policies

Shortly after each semester or session, a grade report will be available to each student at the University Records and Systems Assistant (URSA) at www.iup.edu/ursa.

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.

Midterm Grade Report Policy

To help undergraduate students monitor their academic performance, faculty members will provide a warning to students with unsatisfactory performance at midterm. Using the university's accepted grade reporting technology, faculty members will assign a midterm grade of "D" (danger or potential failure) or "F" (failure). Each semester the Registrar will establish and announce the dates for the window within which midterm grades may be posted by faculty members and read by students and advisors. The midterm grade is an advisory grade and is not a permanent part of a student's academic history. It will not be used to determine enrollment status, dismissal, or eligibility for financial aid, housing, or athletics.

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 credits 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. 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 Registrar's 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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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 credits 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 grade processing.

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 credits successfully completed under pass-fail ("passed"), within the overall 15-credit limitation, shall be recorded as counting towards the total credits earned for graduation but not towards the credit-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. EDUC 389 and NMDT 434 are only offered on a pass-fail basis.

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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 reason. Changes of grade to convert designations of "I" must be received in the Office of the Registrar no later than the final day of classes in the next regular (fall/spring) semester after the designation was assigned. If the faculty does not change the "I" designation using a Change of Grade Form, it will be converted to an F.

In rare circumstances the student and/or faculty member may ask for an extension of the deadline. In this event, the dean of the college in which the course is taught may approve the extension, providing the faculty member concurs. To monitor designations, the registrar shall submit to department chairs routine semester reports of outstanding "I" designations.

Procedure: A faculty member assigning the "I" designation must complete an Incomplete Grade Form with the dean's office indicating the work to be completed, deadlines for completion (it is not necessary to permit the maximum allowable time), and guidelines to establish a final grade. Copies of the completed form will be sent to the department chairperson, the dean of the college in which the course was taught, and the student receiving the "I" designation.

Upon completion of the coursework, or notification by the student that the coursework will not be completed, the faculty member must submit a Change of Grade Form to indicate the final course grade.

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 coursework 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 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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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.

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 may 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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Cancelled Semester Policy

The Cancelled Semester Policy provides for cancellation from the cumulative record of the effects of **one semester below a GPA of 2.00** for the purpose of helping a student improve academic standing. The student must have been separated from the university for four consecutive semesters and the intervening summer sessions.

Semester to be cancelled refers to any semester of enrollment, whether full- or part-time. Students may elect to use an enrolled summer as their "semester" to be cancelled. The entire summer of any given year will be treated as a semester for the purpose of cancellation of grades.

Cancellation removes the mathematic effect of all grades (passing, failing, withdrawals) from the semester, but there is no abridgement of the transcript. All courses and original grades remain visible on the official transcript; credit toward graduation remains for those credits associated with passing grades.

A student readmitted under this policy must meet current degree requirements and will be reviewed under current academic standards requirements applicable at the time of readmission.

This policy may be invoked only once in a student's undergraduate enrollment in the university. While readmission may be based on the application of the cancelled semester, the transcript record will reflect this only after the student is enrolled and attending IUP. It is not a tool to qualify for transfer to another institution.

The student must apply to the college of which he/she was a member at the time of last enrollment. If a student wishes to enter a major in a college other than the one from which he/she was separated, he/she will apply to the original college, which will forward the application and related records to the new college for action. The college will inform the Office of the Registrar if the application is approved. Authorization for registration will come from that office.

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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 credits 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 credits 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 credits 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 credits 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 readmission. A student readmitted under this policy waives the right to exercise the cancelled semester policy.

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Withdrawal Policies

Individual Course Withdrawal Policy

The Individual Course Withdrawal Policy provides students who are unable to complete a course with the option of withdrawing from that course. This option should be taken only after other options have been discussed with the instructor and/or the student's advisor.

During the Fall and Spring semesters, Individual Course Withdrawals may be processed using the computer registration system between the day after the conclusion of the drop/add period and the end of the first two-thirds of the academic term. During summer parts of term, the deadline is the two-thirds point of each summer course for which the student is registered. After the two-thirds point of each semester or part of summer term, students may no longer process Individual Course Withdrawals.

A student needing to withdraw from a course after the deadline must process a request for deadline waiver through the office of the dean of his or her college. Approval of the waiver is contingent upon documentation of catastrophic circumstances preventing the student from completing the semester. If a waiver is approved, the college office will arrange for recording the "W" designation.

Since instructors inform students of their standing in class prior to the two-thirds point of the semester (Midterm Grade Report Policy), students will be able to discuss course withdrawals with instructors and/or academic advisors to assess alternatives. Students, advisors, and instructors should also understand the significant impact of course withdrawal on financial aid eligibility (percent of completion and eligibility to move to the next class level), athletic eligibility, and health insurance which requires full-time status. Students are also cautioned to consider the detrimental impact of Ws in a transcript review by a prospective employer or graduate school.

Total University Withdrawal Policy

The Total University Withdrawal policy provides students who are unable to complete a semester with the option of withdrawing from all classes, and thus from the university, for that semester. During the fall and spring semesters, Total University Withdrawals may be processed between the first day of classes and the end of the eleventh week of the semester. During summer parts of term, the deadline is the two-thirds point of each summer course for which the student is registered. Questions about academic impact of withdrawal should be directed to the Advising and Testing Center (See "Process" below). Questions about the financial impact of withdrawal should be addressed to the Office of the Bursar and/or the Office of Financial Aid.

Late Withdrawal: Any undergraduate student who needs to withdraw from the university after the deadline must process a waiver through the office of the dean of his or her college. Approval of the waiver is contingent upon documentation of catastrophic circumstances preventing the student from completing the semester. Approved waivers must be submitted to the Advising and Testing Center and attached to the Total University Withdrawal form for processing as below.

Involuntary Withdrawal: Any undergraduate student involuntarily withdrawing from the university as a result of suspension or expulsion unrelated to violations of the Academic Integrity Policy will automatically have the designation of "W" assigned to each registered course as a result of such judicial action.

Process: Undergraduate students voluntarily withdrawing from the university during the fall, spring, or summer semesters must process a Total University Withdrawal either via the web (www.iup.edu/ursa) or by form completion with the Advising and Testing Center, Pratt Hall, 724-357-4067 (V/TD; advising-testing@iup.edu). Once the Total University Withdrawal has been processed, a withdraw designation ("W") will be assigned to all registered courses in the semester from which the student is withdrawing.

Readmission: Requests for readmission for academically dismissed students or first-semester and transfer students who withdraw from the university voluntarily during their first semester of full-time enrollment will be forwarded to the Office of the Dean of the college in which the student was enrolled at the time of dismissal or total university withdrawal for a decision on the student's readmission.

Decisions for readmission of students in university probationary or dismissed status, regardless of whether the student was dismissed by the university or the student voluntarily withdrew, are the responsibility of the Academic Standards Officer of the college the student wishes to enter. If

the student is seeking admission to a new college, the officer of the new college will consult with the officer of the former college before making a decision. The Registrar's Office will officially change the major based on the officer's readmission letter to the student.

Students should refer to the Readmission Policy for Students Who Withdraw from the University Voluntarily in the Admissions section of this catalog for further information about returning to IUP after processing a Total University Withdrawal. Applications for Readmission are available in the Registrar's Office, Clark Hall, 724-357-2217.

Withdrawal from IUP and Its Impact on Student Financial Aid

Students taking a total university withdrawal from all of their courses at IUP may find their financial aid for that particular semester affected. The 1998 Reauthorization of the Higher Education Act requires educational institutions to calculate a Return of Federal Student Aid Funds (Title IV aid) for students who withdraw from all classes on or before the 60 percent attendance point in the semester. A pro-rata schedule is used to determine the percentage of the semester attended; that percentage determines the amount of federal funds earned. The Office of the Bursar applies the federal guidelines and returns the unearned portion to the federal programs in the following order:

1. Unsubsidized Federal Stafford Loan
2. Subsidized Federal Stafford Loan
3. Federal Perkins Loan
4. Federal PLUS Loan
5. Federal Pell Grant
6. Federal Supplemental Educational Opportunity Grant

Example: If a student withdrew on the 32nd calendar day of a semester which encompassed 106 calendar days (not including breaks of five or more days), the student would have attended 30 percent of the semester. Therefore, the student would have earned 30 percent of his federal aid.

In addition to impacting current eligibility, a total withdrawal can affect future eligibility for financial aid. Please refer to the section regarding satisfactory academic progress.

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IUP Policy for Enrolled Students Called to Active Military Service

IUP provides two options for students who are currently enrolled but called to active military duty before the end of the semester:

Option 1

The student may choose to do a total semester withdrawal from all his/her classes, and under a Pennsylvania State System of Higher Education policy, receive a full refund for tuition and fees; any university room and dining hall contract fees would be refunded on a prorated basis for the actual services the student has received up to the date of the withdrawal. This option requires that the student withdraw from every course and receive no grade for any course taken in that semester.

To process a total semester withdrawal, undergraduate students must contact the Advising and Testing Center, 106 Pratt Hall, 724-357-4067, (www.iup.edu/advisingtesting or e-mail at advising-testing@iup.edu) to complete the necessary paperwork to assign the course withdrawal designations and to start the process for refunds; graduate students must notify the School of Graduate Studies and Research, 101 Stright Hall, 724-357-2222 (www.iup.edu/graduate).

Any student who has elected to use this option shall be granted readmission for the next semester in which the student wishes to return to IUP. The student's academic standing at the time of readmission shall remain as it was prior to the call to active military duty.

For federal student aid recipients, the return of Title IV student aid will be applicable.

Option 2

If a substantial part of the semester has been completed by the time the student is called for active military duty, the student may meet with each instructor to determine an appropriate grade. Since assignment of grades is the responsibility of the instructor, he/she may assign whatever grade is appropriate. If the appropriate grade is an "incomplete," IUP will extend the deadline by which the incomplete must be removed to *180 days from the time the student returns from active duty*. Any university room and dining hall contract fees would be refunded on a prorated basis for the actual services the student has received up to the date of leaving the university for active duty.

Undergraduate students must contact the Advising and Testing Center to complete the necessary paperwork to start the process for refunds; graduate students must notify the School of Graduate Studies and Research.

Any student who has elected to use Option 2 who wishes to return to IUP must contact the Registrar's Office to have his/her status reactivated.

Questions may be addressed to the Registrar's Office, 300 Clark Hall, 724-357-2217 (www.iup.edu/registrar).

Academic Standards Policy

- A. **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 subpopulations are subject to modifications listed in Section F.

B. **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, spring, or summer 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.

C. **Administrative Review and Enforcement of Standards**

1. Each college, regional campus, and the Department of Developmental Studies 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, spring, and summer 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 cumulative GPA 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 2.00 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.

- D. **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 Department of Developmental Studies 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.

E. **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 of students in university probationary or dismissed status, regardless of whether the student was dismissed by the university or the student voluntarily withdrew, are the responsibility of the Academic Standards Officer of the college the student wishes to enter. If the student is seeking admission to a new college, the officer of the new college will consult with the officer of the former college before making a decision. The Registrar's Office will officially change the major based on the officer's readmission letter to the student.
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.

F. **Special Populations**

1. **Department of Developmental Studies/Act 101 Program:** Students admitted through the Department of Developmental Studies remain under the direction of the Department of Developmental Studies until reaching the 2.00 CGPA standard. Students dismissed after earning a 0.00 CGPA in their initial Department of Developmental Studies/Act 101 program may apply for readmission only to the next

Department of Developmental Studies/Act 101 program.

2. **Regional Campuses:** Students admitted through a regional campus must remain at that campus 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 credits of classes.

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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 chairperson of the department in which the course was offered, 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, gender identity, sexual orientation, 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, APSCUF president, 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 Provost's Office 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. The Provost's Office will notify the student 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 for 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/university 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 appellant 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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I. Academic Integrity Policy and Procedures

The university's academic integrity policy is part of an ongoing effort to develop a community where trust, honesty, ethical principles, and personal integrity guide interactions with others, thereby providing for orderly academic and scholarly processes. The following policy and procedures have been established to preserve the academic integrity of the university community, while also providing a process that provides opportunities for students to respond to allegations that the policy has been violated.

II Policy

A. **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, and 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 acknowledgment 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 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 as addressed by university computing policies including, but not limited to: using or attempting to use computing accounts or other information for which the student is not authorized; providing false or misleading information to obtain a computing account or access to other information resources; attempting to obtain information resource access codes (usernames, passwords, PINs, etc.) for another user's computing accounts; sharing information resource access codes (usernames, passwords, PINs, etc.) with other individuals; attempting to disguise the identity of a computing account or other information resource; using or attempting to use university network resources to gain or attempt to gain unauthorized access to remote computers including, but not limited to, port scanning; violating the terms of intellectual property rights, in particular software license agreements and copyright laws; using information resources to monitor another user's data communications or to read, copy, change, or delete another user's files or software without permission of the owner; using or installing or attempting to use or install software not properly licensed.
9. Noncompliance by failure to comply with previously imposed sanctions for academic violations under this policy.
10. Class behavior which significantly disrupts the learning process or is a threat to others.
11. Buying, selling, stealing, or engaging in unauthorized exchange of, or improperly using, any assignments, papers, or projects.
12. Making fraudulent claims to gain academic credit or to influence testing or grading.

The university reserves the right to discipline any student for the above policy violations and any other 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 a faculty member or administrator. 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 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.

III. Procedures

- A. **Options for Resolution.** A faculty member or administrator must use one of the following options to resolve alleged violations of academic integrity:
1. **Option I: Informal Resolution.** The faculty member/administrator shall notify the student of the charges and schedule a meeting within ten calendar days of the observation or discovery of the incident and agree at such meeting to resolve the issue without submitting any formal documentation. If the violation pertains to work being judged or that has been judged by a committee (examples might include dissertations, theses, 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 the faculty member/administrator and student to complete a statement that summarizes the incident, meeting, and agreed-upon resolution. The factual statement should be signed by both parties and copies provided to the student and the faculty member/administrator. By resolving the charges informally, the student waives his/her right to appeal sanctions which have been agreed upon in the resolution process. If agreement cannot be reached, or if, at the discretion of the faculty member/administrator, a more formal process as outlined in this policy is appropriate, the formal process will be initiated by the faculty member/administrator. No formal record is kept if the case is satisfactorily resolved at this level.
 2. **Option II: Resolution by Documented Agreement**
 - a. If no resolution is reached under Option I, or if the faculty member/administrator deems this step to be more appropriate, the faculty member/administrator will schedule a conference with the student in an attempt to reach a mutually agreeable resolution. This conference must be scheduled/requested within ten calendar days of the observation or discovery of the alleged violation or of the failure to resolve through Option I. If an agreement is reached, the faculty member/administrator must complete a Documented Agreement Referral 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 or that has been judged by a committee, the conference must involve a majority of the committee and the Documented Agreement Referral Form must be agreed to and signed by a majority of the committee and the student. Copies are distributed to the student, the faculty member/administrator filing the agreement, the department chair, and the Office of the Provost. The Office of the Provost will file the official documents with the Office of Student Conduct. The form must be filed within ten calendar days of the conference.
 - b. By signing 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 for the student is on record, the matter will be referred to an Academic Integrity Board (see section D, Multiple Violations).
 - d. If a documented agreement is not reached, the faculty member/administrator shall initiate the formal adjudication process by filing an Academic Integrity Referral Form with the department chair, within ten calendar 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 the following sanctions:
 - * awarding a failing grade on a project or exam (such as a graduate qualifying for a comprehensive exam or dissertation) when resubmitting the project or retaking the exam is not possible
 - * involuntary withdrawal from part of IUP's academic or other programs
 - * suspension
 - * expulsion
 - * rescission of a conferred degree
 - a. The faculty member/administrator should file an Academic Integrity Referral Form with the department chair, within ten calendar days of the observation or discovery of the violation or within ten calendar 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 if the student is found to have violated this policy.
 - b. The department chair will forward a copy of the Academic Integrity Referral Form to the student, within ten calendar 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 (within ten calendar 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, and in the case of a graduate student, the dean of the School of Graduate Studies and Research (or dean's designee); all parties may invite others with pertinent information. The student and the faculty member/administrator must be given the opportunity to submit and review

written, physical, and testimonial evidence, and to question 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.
- 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 unless the sanction is suspension, expulsion, or rescission of a degree. Suspension, expulsion, or rescission of a degree must be implemented by the president's designee.
- g. If the accused student receives proper notification of the hearing and fails to appear when the hearing has been scheduled, the hearing will be held in the student's absence and the department chair will render a decision based upon information presented by the faculty member/administrator.
- h. Following the hearing, the department chair will render a determination based on the information presented at the hearing. Within ten calendar days of the hearing, the department chair will forward a written report summarizing the hearing that includes the outcome, the factual basis for the determination reached, the sanction to be issued, and the appeal procedures. The original report is sent to the student with copies to the faculty member/administrator and Office of the Provost. The Office of the Provost will file the official documents with the Office of Student Conduct.
- i. 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/designee will determine the appropriate individual to fulfill the department chair's role and inform the student and the faculty member/administrator filing charges within ten calendar days of receiving notification of the allegation.
- j. If a prior academic violation for the student is on record, the case must be referred to the Academic Integrity Board (see section D, Multiple Violations). Otherwise, if there is no appeal, the recommended sanction will be imposed.

B. Academic Integrity Board (AIB). The AIB may be asked to hear cases filed at Option III: Resolution by Formal Adjudication. In addition, the AIB will hear all cases in which appeals to the chair's decision are accepted by the provost/designee (see sections C.1. and C.2., Appeals). The AIB will also review sanctions in cases of multiple violations (see section D).

1. For graduate-level hearings and reviews, the AIB will be made up of four (4) faculty members, one of whom will chair the board, and two (2) graduate students. For undergraduate hearings and reviews the AIB will be made up of four (4) faculty members, one of whom will chair the board, and two (2) undergraduate students. A quorum requires the presence of four persons, at least one of whom must be a graduate student (for cases at the graduate level) or an undergraduate student (for cases at the undergraduate level). All members, including the chair, are voting members.
2. When an AIB hearing is called, the AIB will be convened by the provost/designee. 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 no sooner than ten calendar days from the date of notification to the student.
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 AIB will hear evidence appropriate to the nature of its review (see section C, Appeals).
6. The student shall have a fair and reasonable opportunity to answer, explain, and defend against information and witnesses' statements presented at the hearing. The student shall also have the opportunity to submit written, physical, and testimonial evidence and to call relevant witnesses on his/her behalf.
7. 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.
8. After hearing all evidence, the AIB will privately make its decision based upon the evidence presented and within the scope of its review. A majority vote of the AIB shall be required for any decision. If the AIB finds that the student more likely than not committed the misconduct or infraction, and the student has no prior academic violation on record, it may accept, reduce (but not increase), or modify the recommended sanction. If the student does have a prior academic violation on record, the AIB may increase the recommended sanction (see section D, Multiple Violations).
9. 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.
10. 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 to the hearing.
11. The AIB must submit a written report of the decision within ten calendar days to the provost/designee, who will forward the decision to the involved parties.

C. 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.

1. If, after receiving the department chair's report on the outcome of the hearing, the faculty member/administrator or the student disagrees with the decision, the sanction, or both, he/she may appeal to the provost/designee within ten calendar days of receiving the report. This appeal must be in writing and 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
2. The provost/designee may deny the appeal or direct the appeal to be heard by an AIB within ten calendar days. All appeals involving sanctions of involuntary withdrawal from part of IUP's academic or other programs, suspension, expulsion, or rescission of a degree will be heard by an AIB.
 3. Unless the recommended sanction is suspension, expulsion, or rescission of a degree, the decision of the AIB is final and will be implemented by the provost/designee.
 4. Suspension, expulsion, or rescission of a degree may be recommended by the AIB but can only be implemented by the president's designee, who is responsible for verifying that due process was followed.

D. Multiple Violations

1. Information about prior violations is not relevant to determining whether a student violated the policy in the current case. However, such information is pertinent in determining the appropriate sanction.
2. If a student is found in violation of academic integrity two or more times, all materials within the student's past and present academic integrity files shall be used in determining appropriate sanctions. Students with multiple academic integrity violations of record may be subject to additional sanctions, including possible suspension or expulsion from the university.
3. For cases previously resolved by documented agreement or through formal adjudication at the department chair's level, an AIB hearing will be scheduled. 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.
4. 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.
5. The AIB must submit a written report of the decision within ten calendar days of its decision to the provost/designee, who will forward the decision to the involved parties.
6. The student may appeal any new sanction 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.

E. 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 may 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. Rescission of a degree: A student may have his/her degree rescinded if found to have plagiarized or not to have conducted his/her own research on his/her undergraduate thesis, graduate thesis, or graduate dissertation.
 - e. 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 himself/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.
 - f. 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, expulsion, and rescission of a degree can be recommended by a faculty

member/administrator, department chair, and AIB but can be imposed only by the president's designee for suspension, expulsion, and rescission of a degree; the president's designee is responsible for verifying that due process was followed.

- g. Other: Further sanctions, including rescission of a graduate degree, may be recommended through written agreement approved and signed by the faculty member and the dean of the School of Graduate Studies and Research.

F. **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 filed with the Office of Student Conduct. 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 filed with the Office of Student Conduct. They are maintained as formal disciplinary records in accordance with IUP judicial system recordkeeping policies. Records of cases involving suspension, expulsion, or rescission of a degree must be maintained for a minimum of seven 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 ten-day requirement within this policy is a period of time intended to reasonably assure swift notification of an alleged violation and a swift response while allowing the student a reasonable opportunity to prepare a response. Either a faculty member/administrator or student may request an extension of time for good cause; this extension may be granted by the provost/designee.
4. 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.
5. 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.
6. This policy will be reviewed by the Senate Academic Committee after five years.

The various forms described in this policy are available from the Office of the Provost, the Office of the Vice President for Student Affairs, deans' offices, or department offices. Questions concerning the Academic Integrity Policy and Procedures can be directed to the Office of the Provost.

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Final Examination Policies

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 Registrar's Office. 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 Registrar's Office, 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.

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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Class Disruptions

Students and faculty alike should strive to create a class environment that reflects mutual respect and the importance of learning. If a student's behavior threatens to disrupt that environment, the faculty member has a responsibility to seek resolution of the problem.

A faculty member is empowered to request that a student leave during particular class period if, in the measured opinion of that faculty member, the student: (1) Significantly disrupts the learning process, or (2) Is a threat to others.

If the student refuses to leave or if the faculty member deems it appropriate, law enforcement officers may be called to remove the student.

If the behavior is especially egregious or potentially harmful, the faculty member may, with the consent of his/her academic dean and in consultation with the department chairperson, keep the student from returning to class until the case can be adjudicated. Because significant disruptive class behavior is a potential violation of the Academic Integrity Policy, the procedures outlined in that policy should be used to resolve the case. When appropriate, criminal charges should also be filed.

If deemed appropriate, the adjudicators may render a decision that removes the offending student from the class or the university. If so, the university will assign, in lieu of a grade, a designation that indicates a withdrawal. If grades are due before a final decision has been reached, the instructor should assign a temporary designation of I (incomplete).

If the student is allowed to return, the student will have the option of reentering another open section of the course if feasible. When appropriate, the student should be allowed a reasonable opportunity to make up any work missed during the forced absence.

If a student's grade is adversely affected by a capricious forced absence, the student may file a grade appeal.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Requirements for Graduation

Undergraduate students at IUP may pursue programs of study in any one of 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, the College of Natural Sciences and Mathematics, and the School of Continuing Education offer Associate of Arts degree programs. The College of Natural Sciences and Mathematics also offers Associate in Applied Science and Associate in Science degrees.

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, and 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 credit 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 30 additional credits. A student may complete one or more secondary majors while earning the primary degree or may complete a dual baccalaureate degree.

<p>Liberal Studies</p> <ul style="list-style-type: none"> • Learning Skills • Humanities • Fine Arts • Natural Science • Social Sciences • Health and Wellness • Liberal Studies Electives • Non-Western Cultures • Synthesis 	Academic Life During the Freshman Year
	Credit and Cumulative GPA Requirement
	Eligibility and Application for Graduation
	Non-Native Students: English Language Requirements
	Pre-Approval for Transfer Coursework
	Program Changes
	Residency Requirement for Awarding of Degrees
	Timely Completion of Degree Requirements
	Undergraduate Catalog Applicability Time Frame
	Writing Across the Curriculum

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.

Four Liberal Studies course areas are designed especially for freshmen, and all students are expected to complete these courses during their first year. These are *ENGL 101 College Writing*, *HIST 195 The Modern Era*, a course from a list of Fine Arts selections, and a Health and Wellness course from those selections. *ENGL 101* enhances skills in written expression that are essential to success at the university. *HIST 195* 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. Courses in the Health and Wellness component address the many facets of wellness that contribute to health.

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 courses and tutoring resources are offered as available.

Credit and Cumulative Grade-Point Average Requirement

Each student must complete a minimum of 120 credits to graduate, including a minimum of 48 credits in Liberal Studies (all on a passing basis) and must have a 2.0 (C grade) cumulative GPA and a 2.0 (C grade) GPA in his/her major and/or minor field. Some programs require more than 120 credits for graduation.

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Liberal Studies

All students must fulfill the requirements of the university's Liberal Studies program. This involves a minimum of 48 credits divided among Learning Skills, Knowledge Areas, and Synthesis. The number of credits 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.

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.

Learning Skills: English Composition: Two Courses			7cr
ENGL 101	College Writing	4	
ENGL 202	Research Writing (sophomore standing)	3	
Learning Skills: Mathematics:			3-6cr
MATH 101	Foundations of Mathematics	3	
MATH 102	Finite Mathematics [inactive]	3	
MATH 105	College Algebra	3	
MATH 110	Elementary Functions	3	
MATH 115	Applied Mathematics for Business	4	
MATH 121	Calculus I for Natural and Social Sciences	4	
MATH 123	Calculus I for Physics, Chemistry, and Mathematics	4	
MATH 127	Calculus I [inactive]	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	

Humanities: Three Courses*			9cr
*One course in history, one in literature, and one in philosophy or religious studies.			
History:			
HIST 195	The Modern Era	3	
Literature:			
ENGL 121	Humanities Literature	3	
ENGL 122	Introduction to Literary Analysis (English majors)	3	
FNLG 121	Humanities Literature (taught in English)	3	
Philosophy or Religious Studies:			
PHIL 101	Informal Logic: Methods of Critical Thinking	3	

PHIL 120	Introduction to Philosophy	3
PHIL 221	Symbolic Logic I	3
PHIL 222	Ethics	3
PHIL 223	Philosophy of Art	3
RLST 100	Introduction to Religion	3
RLST 110	World Religions	3
RLST 250	Understanding the Bible	3
RLST 290	Christianity	3

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Fine Arts: One Course from List		3cr
ARHI 101	Introduction to Art	3
DANC 102	Introduction to Dance	3
MUHI 101	Introduction to Music	3
MUHI 102	Survey of Music Literature (Music Majors)	3
THTR 101	Introduction to Theater	3

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Natural Science: One Option		8-10cr
Option I: Two-semester Laboratory Course Sequence		8cr
Two courses with laboratories (4cr each), paired together in a sequence, from the natural science laboratory course list.		
Natural Science Laboratory Sequences:		
BIOL 103/104	General Biology I and II	8
CHEM 101/102	College Chemistry I and II	8
CHEM 111/112	General Chemistry I and II	8
CHEM 113/114	Concepts in Chemistry I and Basic Inorganic Chemistry	8
Two of the following three, in any order:		
GEOS 101/102	The Dynamic Earth with lab	4
GEOS 103/104	Oceans and Atmospheres with lab	4
GEOS 105/106	Exploring the Universe with lab	4
GEOS 111/112 113/114	Earth Science for Educators I with lab <i>and</i> Earth Science for Educators II with lab	8
GEOS 121/122 131/132	Physical Geology with lab <i>and</i> Historical Geology with lab	8
PHYS 111/121 112/122	Physics I with lab <i>and</i> Physics II with lab	8
PHYS 131/141 132/142	Physics I (calculus) with lab <i>and</i> Physics II (calculus) with lab	8
SCI 105/106	Physical Science I <i>and</i> II (either order)	8
Option II: One Laboratory plus Two Nonlaboratory Courses		10cr
One course with laboratory (4cr) from the natural science laboratory course list followed by two courses (3cr each) from natural science nonlaboratory course list. One of the nonlaboratory courses may be counted again among the Liberal Studies Electives.		
Natural Science Laboratory Courses:		
BIOL 103	General Biology I	4
CHEM 101	College Chemistry I	4
CHEM 111	General Chemistry I	4
CHEM 113	Concepts in Chemistry I	4
GEOS 101/102	The Dynamic Earth with lab	4

GEOS 103/104	Oceans and Atmospheres with lab	4
GEOS 105/106	Exploring the Universe with lab	4
GEOS 111/112	Earth Science for Educators I with lab	4
GEOS 113/114	Earth Science for Educators II with lab	4
GEOS 121/122	Physical Geology with lab	4
GEOS 131/132	Historical Geology with lab	4
PHYS 111/121	Physics I with lab	4
PHYS 131/141	Physics I (calculus) with lab	4
PHYS 151/161	Medical Physics with lab	4
SCI 105	Physical Science I	4
SCI 106	Physical Science II	4

Natural Science Nonlaboratory Courses:

BIOL 113	Genetics in Modern Society	3
BIOL 114	Environmental Science	3
BIOL 115	Biotic Diversity of North America	3
BIOL 116	Introduction to Marine Biology	3
BIOL 117	Understanding HIV Biology and Aids	3
BIOL 118	The History of Pain	3
BIOL 119	Emerging Diseases	3
GEOS 101	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 141	Introduction to Ocean Science	3
GEOS 150	Geology of National Parks	3
GEOS 151	The Age of Dinosaurs	3
GEOS 221	Physical Resources of the Earth	3
GEOS 226	Forensic Geology	3
PHYS 101	Energy and Our Environment	3
PHYS 105	The Physics of Light and Sound	3
PHYS 111	Physics I Lecture	3
PHYS 112	Physics II Lecture	3
PHYS 131	Physics I Lecture (calculus)	3
PHYS 132	Physics II Lecture (calculus)	3
PHYS 151	Medical Physics Lecture	3
SCI 201	Great Ideas in Science	3

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Social Science: Three Courses from List*		9cr
*No course prefix may be used more than once		
ANTH 110	Contemporary Anthropology (1)	3
ANTH 211	Cultural Anthropology (1)	3
ANTH 213	World Archaeology	3
CRIM 101	Crime and Justice Systems	3
ECON 101	Basic Economics	3
ECON 121	Principles of Macroeconomics	3
GEOG 101	Introduction to Geography: Human Environment	3
GEOG 102	Geography of U.S. and Canada	3
GEOG 104	Geography of the Non-Western World (1)	3
JRNL 105	Journalism and the Mass Media	3
PLSC 101	World Politics (1)	3
PLSC 111	American Politics	3
PSYC 101	General Psychology	3
SOC 151	Principles of Sociology	3

SOC 231	Contemporary Social Problems	3
(1) Also fulfills requirement for non-Western course		

Health and Wellness: One Course		3cr
HPED 143	Health and Wellness	3
FDNT 143	Nutrition and Wellness	3
NURS 143	Healthy People	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 (2cr) and MLSC 102 Fundamentals of Military Science and Lab (2cr). MLSC 203 and 204 may be substituted for MLSC 101 and 102 . Veterans are given 4cr toward these requirements by validating two years' active duty via form DD214.		

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Liberal Studies Electives:		0-9cr*
<ul style="list-style-type: none"> - At least one course must be numbered 200 or higher - No course carrying the student's major prefix may be used - No course prefix may be used more than once, except for intermediate-level foreign language prefixes (FRNC, GRMN, ITAL, and SPAN), which may be used twice. - Refer to program of study for specific requirements 		
See list of Nonlaboratory Natural Sciences for additional courses which may be used as Liberal Studies electives. Also see list of Non-Western Cultures courses, some of which may be used as Liberal Studies Electives.		
The following courses are also approved:		
ANTH 286	Marriage, Kinship, and the Family [same as SOC 286]	3
ARHI 205	Ancient to Medieval Art	3
ARHI 207	Renaissance through Modern Art	3
ARHI 222	Art in America	3
BTED 101	Microbased Computer Literacy [same as COSC/IFMG 101]	3
BTED 201	Internet and Multimedia [same as COMM/COSC/IFMG/LIBR201]	3
CDFR 218	Child Development	3
CDFR 424	Marriage and Family Relations	3
CNSV 101	Personal and Family Management	3
CNSV 315	Consumer Economics and Family Finance	3
COMM 101	Communications Media in American Society	3
COMM 201	Internet and Multimedia [same as BTED/COSC/IFMG/LIBR 201]	3
COMM 325	Women in Media	3
COMM 380	The History of African Americans in Film	3
COSC 101	Microbased Computer Literacy [same as BTED/IFMG 101]	3
COSC 201	Internet and Multimedia [same as BTED/COMM/IFMG/LIBR 201]	3
ECON 122	Principles of Microeconomics	3
ENGL 349	English Bible as Literature	3
FDNT 145	Introduction to Nutrition	3
FRNC 201	College French I (2)	3
FRNC 202	College French II (2)	3
FRNC 203	Accelerated College French	6
FRNC 301	Portraits of Women in the French Novel	3
GEOG 230	Cultural Geography	3
GEOG 231	Economic Geography	3
GEOG 251	Geography of Pennsylvania	3
GEOG 253	Geography of Europe	3
GEOG 261	Geography of Wine	3
GRMN 251	German III (2)	3
GRMN 252	German IV (2)	3
HIST 210	Ancient Civilizations: The Middle East and the Eastern Mediterranean	3

HIST 212	Ancient and Medieval Europe	3
HIST 214	Themes in American History	3
HIST 305	Renaissance and Reformation	3
HIST 355	African History I: Antiquity to 1600	3
HIST 363	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 [same as BTED/COSC 101]	3
IFMG 201	Internet and Multimedia [same as BTED/COMM/COSC/LIBR 201]	3
ITAL 201	Intermediate Italian III	3
ITAL 202	Intermediate Italian IV	3
JRNL 250	Women and the Press	3
JRNL 375	World News Coverage	3
LATN 102	Elementary Latin II [inactive]	4
LATN 201	Intermediate Latin [inactive] (2)	4
LIBR 201	Internet and Multimedia [same as BTED/COMM/COSC/IFMG 201]	3
LIBR 251	Information Access in the Digital Age	2
MATH 121	Calculus I for Natural and Social Sciences (1)	4
MATH 122	Calculus II for Natural and Social Sciences	4
MATH 123	Calculus I for Physics, Chemistry, and Mathematics (1)	4
MATH 124	Calculus II for Physics, Chemistry, and Mathematics	4
MATH 152	Elements of Mathematics II (specified majors only) (1)	3
MATH 214	Probability and Statistics for Business Majors	3
MATH 216	Probability and Statistics for Natural Sciences	4
MATH 217	Probability and Statistics (1)	3
MATH 241	Differential Equations	3
MUHI 301	Music History I	3
MUHI 302	Music History II	3
PHIL 232	Philosophical Perspectives on Love, Marriage, and Divorce	3
PHIL 321	Symbolic Logic II	3
PHIL 323	Political Philosophy	3
PHIL 324	Ancient Philosophy	3
PHIL 325	Modern Philosophy	3
PHIL 326	Phenomenology and Existentialism	3
PHIL 330	Philosophy of Science	3
PHIL 400	Ethics and Public Policy	3
PHIL 405	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
PHIL 460	Philosophy of Language	3
PLSC 346	Political Sociology [same as SOC 458]	3
PSYC 310	Developmental Psychology	3
PSYC 321	Abnormal Psychology	3
PSYC 330	Social Psychology	3
PSYC 378	Psychology of Death and Dying	3
RLST 200	Religion and Culture: Their Interaction	3
RLST 210	World Scriptures	3
RLST 260	American Religious Development	3
RLST 312	Archaeology and the Bible	3
RLST 329	Philosophy of Religion	3
RLST 410	Early Christian Thought	3
RLST 440	Modern Christian Thought	3
SAFE 100	Workplace Safety Today and Tomorrow	3
SOC 269	Sociology of Deviance	3
SOC 286	Marriage, Kinship, and the Family [same as ANTH 286]	3
SOC 337	World Societies and World Systems	3

SOC 340	Sociology of Industry	3
SOC 361	Social Stratification	3
SOC 362	Racial and Ethnic Minorities	3
SOC 363	Sociology of Gender	3
SOC 458	Political Sociology [same as PLSC 346]	3
SPAN 102	Elementary Spanish II	4
SPAN 122	Spanish for Health Care Professionals II	3
SPAN 132	Spanish for the Hospitality Industry II	3
SPAN 201	Intermediate Spanish (2)	3
SPAN 211	Intensive Intermediate Spanish [inactive]	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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Non-Western Cultures: One Course from List*	3cr
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*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 fulfills LS Social Science requirement:

ANTH 110	Contemporary Anthropology	3
ANTH 211	Cultural Anthropology	3
GEOG 104	Geography of the Non-Western World	3
PLSC 101	World Politics	3

Also fulfills LS Elective requirement:

ANTH 271	Cultural Area Studies: Africa [same as SOC 271]	3
ANTH 272	Cultural Area Studies: China [same as SOC 272]	3
ANTH 273	Cultural Area Studies: Southeast Asia [same as SOC 273]	3
ANTH 274	Cultural Area Studies: Latin America [same as SOC 274]	3
ANTH 314	Native Americans [same as SOC 314]	3
ANTH 350	Anthropology of Women	3
ANTH 365	Native North American Religions [same as RLST 365]	3
ANTH 370	Latinos and Diasporas [same as LAS 370]	3
ANTH 430	Anthropology of Food	3
ARHI 224	Introduction to Asian Art	3
ARHI 300	Native American Art	3
ARHI 423	Arts of Japan	3
ARHI 425	Arts of China	3
ASIA 200	Introduction to Asian Studies	3
COMM 230	Issues in International Communication	3
ECON 350	Comparative Economic Systems	3
ENGL 396	The Literature of Emerging Nations	3
GEOG 252	Geography of Latin America	3
GEOG 254	Geography of Russia and the Soviet Sphere	3
GEOG 255	Geography of Africa	3
GEOG 256	Geography of East Asia	3
GEOG 257	Geography of South and Southeast Asia	3
HIST 206	History of East Asia	3
HIST 208	Survey of Latin American History	3
HIST 327	Soviet Union and Contemporary Russia	3
HIST 330	History of the Islamic Civilization	3
HIST 331	Modern Middle East	3

HIST 332	History of Early China	3
HIST 334	History of Modern China	3
HIST 337	History of Modern Japan	3
HIST 356	African History II: 1600 to Present	3
HIST 367	Native American History	3
ITST 281	Special Topics in Non-Western Studies	3
LAS 370	Latinos and Diasporas [same as ANTH 370]	3
LAS 480	Latin American Studies Seminar	3
PLSC 382	Political Systems: Africa	3
PLSC 387	Political Systems: Latin America	3
PLSC 389	Developing Nations	3
PNAF 131	Introduction to Pan-African Studies	3
RLST 220	Buddhist Thought and Practice	3
RLST 311	Eastern Philosophy	3
RLST 360	African Religions	3
RLST 365	Native North American Religions [same as ANTH 365]	3
RLST 370	Religions of China and Japan	3
RLST 375	Religions of India	3
RLST 380	Islam	3
SOC 271	Cultural Area Studies: Africa [same as ANTH 271]	3
SOC 272	Cultural Area Studies: China [same as ANTH 272]	3
SOC 273	Cultural Area Studies: Southeast Asia [same as ANTH 273]	3
SOC 274	Cultural Area Studies: Latin America [same as ANTH 274]	3
SOC 314	Native Americans [same as ANTH 314]	3
SPAN 244	Modern Mexico	3
SPAN 344	Twentieth-Century Spanish-American Civilization and Culture [taught in Spanish]	3
SPAN 364	Survey of Spanish American Literature [taught in Spanish]	3
Fulfills LS Non-Western requirement only:		
CRLG 151, 201, or 251	Arabic II, III, or IV	3
CRLG 152, 202, or 252	Chinese II, III, or IV	3
CRLG 155, 205, or 255	Hindi II, III, or IV	3
CRLG 156, 206, or 256	Hungarian II, III, or IV	3
CRLG 158, 208, or 258	Japanese II, III, or IV	3
CRLG 159, 209, or 259	Korean II, III, or IV	3
CRLG 162, 212, or 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 Affairs).

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Synthesis: One Course		3cr
LBST 499	Senior Synthesis (required of all students)	3
Prerequisite: 73 or more credits 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.		

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" as part of the section number in each semester's schedule of classes listing on URSA.

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Eligibility and Application for Graduation

Commencement ceremonies at IUP are in May 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. All students who expect to graduate are required to apply for graduation. Undergraduate students should check the published deadlines for graduation application and should apply on the web at www.iup.edu/ursa by logging in to the secure website and clicking on the "Academic Records" link under the "Student Records and Financial Aid" menu. Further information on applying for graduation may be obtained at the associate dean's office of the student's major college.

Degrees will not be posted until approval by the associate dean of the college of the student's primary major is received in the Registrar's Office. Diplomas will then be issued provided all financial obligations and requirements (including primary major, secondary majors, and minors) have been satisfied.

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 Pre-Approval of Coursework at Another College/University 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 credits 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 30 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 the department chairperson of your major or 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 IUP, Transfer Services, 117 Sutton Hall, 1011 South Drive, IUP, Indiana, PA 15705. Copies of transcripts that are opened or unsealed will not be accepted.

Reevaluation of Transfer Credit

If a student feels a course was evaluated incorrectly, a reevaluation form can be printed by visiting www.iup.edu/admissions-office/transfer. A link on this page will lead to the reevaluation form.

A reevaluation form can also be picked up in 118 Sutton Hall. Once the student has the form, it should be filled out and syllabi for the course(s) that are under question should be attached to the form. The form along with the syllabi can be dropped off in 118 Sutton Hall for review by the Transfer Services Coordinator. If syllabi are not provided, the reevaluation

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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Residency Requirement for Awarding of Degrees

All students receiving an initial IUP baccalaureate degree are required to complete 45 credits in IUP courses. At least 15 credits in IUP courses are required to fulfill an IUP major and a minimum of 6 credits for a minor. Normally, the student will complete the final 30 credits 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.

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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Timely Completion of Degree Requirements

The minimum total credit requirement for a baccalaureate degree at IUP is 120. Students who enroll in degree programs that require more than 120, 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.

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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Interim Vice Provost for Research and Dean of Graduate Studies: John S. Eck
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Website: www.iup.edu/academicaffairs

The Academic Affairs areas below provide instruction in several disciplines that are not specific to one of the university's distinct colleges. They offer services and instruction under the direction of the Provost's Office.

Military Science
Robert E. Cook Honors College
The University Libraries



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IUP Council of Trustees	The Faculty
IUP President's Cabinet	Adjunct Faculty
Academic Affairs Division	<ul style="list-style-type: none">Athletic Training/Sports MedicineClinical Laboratory ScienceNuclear Medicine TechnologyRespiratory Care
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Nicolo A. Sartori, M.M., University of Michigan
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Steven P. Schroeder, M.A., Duquesne University
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Lisa M. Sciulli, Ph.D., University of Pittsburgh
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Constance A. Settlemyer, Ph.D., University of Pittsburgh
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University Professor and Professor, English
Joyce A. Shanty, M.S.N., University of Maryland
Assistant Professor, Nursing and Allied Health Professions
Varinder M. Sharma, Ph.D., University of North Texas
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Brian D. Sharp, M.A., West Virginia University
Assistant Professor, Mathematics
Teresa C. Shellenbarger, D.N.S., Widener University
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Cora Lou Sherburne, M.F.A., Musashino Art University (Japan)
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James P. Sherman, Ph.D., Colorado State University
Assistant Professor, Physics
Kenneth W. Sherwood, State University of New York at Buffalo
Assistant Professor, English
Andrew L. Shim, Ed.D., Alliant International University
Assistant Professor, Health and Physical Education
Ruth I. Shirey, Ph.D., University of Tennessee
Professor, Geography and Regional Planning
Stephen B. Shiring, Ed.D., University of Pittsburgh
Associate Professor, Chairperson, Hospitality Management
Daniel C. Shively, M.S.L.S., Drexel University
Associate Professor, University Libraries

Thomas H. Short, Ph.D., Carnegie Mellon University
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Charles J. Shubra, Jr., Ph.D., The Ohio State University
Professor, Computer Science

Rosemary K. Shumba, Ph.D., Birmingham University, Central England
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Thomas W. Simmons, Ph.D., Saint John's University
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Theresa S. Smith, Ph.D., Boston University
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Assistant Professor, Chemistry

Sharon Sowa, Ph.D., Colorado State University
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Associate Professor; Associate Director, Financial Aid; Veteran
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Laurie Nicholson Stamp, D.Ed., Indiana University of Pennsylvania
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James G. Staples, D.M.A., Eastman School of Music-University of Rochester
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Jay Start, Ph.D., University of Pittsburgh
Associate Professor, Communications Media

Mark J. Staszkiwicz, Ed.D., University of Cincinnati
Professor, Educational and School Psychology

John H. Steelman, Ph.D., University of Virginia
Professor, Mathematics

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Karen G. Stein, M.A., Kent State University
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Linda M. Szul, D.Ed., University of Pittsburgh

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Devki N. Talwar, Ph.D., Allahabad University (India)

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Center for Orthopaedics and Sports Medicine

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Center for Orthopaedics and Sports Medicine

Jagadeesha Shetty, M.D., Government Medical College, Bellary, India
Center for Orthopaedics and Sports Medicine

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Keystone Rehabilitation Systems/Blairsville School District

Scott T. Bauer, A.T.C.; B.S., Indiana University of Pennsylvania
Keystone Rehabilitation Systems/Indiana School District

Richard D. Beninghof, M.S., Northern Michigan University

IUP Sports Medicine Clinic

Jodi Friguglinetti, A.T.C.; M.S., California University of Pennsylvania

Keystone Rehabilitation Systems/Homer Center School District

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Center for Orthopaedics and Sports Medicine

Christa L. Pontani, C.R.N.P., Duquesne University

Center for Orthopaedics and Sports Medicine

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IUP Sports Medicine Clinic

Matthew Wilson, A.T.C.; B.S., Indiana University of Pennsylvania

Keystone Rehabilitation Systems/Blairsville-Saltsburg School District

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Compliance and Affirmative Action

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, sexual orientation, age, disability, or veteran's status. Each member of the university community has a right to study and work in an environment free from any form of racial, ethnic, and sexual discrimination. In accordance with federal and state laws, the university will not tolerate racial or ethnic discrimination or discrimination on the basis of disability.

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 disabled veterans and veterans of the Vietnam era.

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

Director of Social Equity and Civic Engagement
474 Sutton Hall, 1011 South Dr.
Indiana, PA 15705
Telephone: 724-357-3402, Fax: 724-357-3404

TD: Telecommunications Device available in the

Advising and Testing Center, 724-357-4067 (V/TD) (8:00-4:30, M-F)
University Police, 724-357-1272 (TD) (24 hours)

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:

Director, Advising and Testing Center/Disability Support Services
504 Coordinator
106 Pratt Hall, 201 Pratt Dr.
Indiana, PA 15705
Telephone: 724-357-4067

Employee Concerns:

Director of Social Equity and Civic Engagement
474 Sutton Hall, 1011 South Dr.
Indiana, PA 15705
Telephone: 724-357-3402

Specific inquiries regarding Title IX should be directed to

Director of Social Equity and Civic Engagement
474 Sutton Hall, 1011 South Dr.
Indiana, PA 15705
Telephone: 724-357-3402

The university publishes an on-line student handbook, *The Source*, which is a companion 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 www.iup.edu/studentconduct/source.

Questions regarding the Sexual Harassment Policy or complaint procedures may be directed to the Director of Social Equity and Civic Engagement, 474 Sutton Hall, IUP. The IUP Sexual Harassment Policy is accessible at the website www.iup.edu/humanresources/policies/sexualharassment.shtm.

This bulletin contains announcements of courses for the academic year 2006-07. 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 Civility Statement

As a university of different peoples and perspectives, IUP aspires to promote the growth of all people in their academic, professional, social, and personal

lives. Students, faculty, and staff join together to create a community where people exchange ideas, listen to one another with consideration and respect, and are committed to fostering civility through university structures, policies, and procedures. We, as members of the university, strive to achieve the following individual commitments:

- *To strengthen the university for academic success*, I will act honestly, take responsibility for my behavior and continuous learning, and respect the freedom of others to express their views.
- *To foster an environment for personal growth*, I will honor and take care of my body, mind, and character. I will be helpful to others and respect their rights. I will discourage intolerance, hatred, and injustice and promote constructive resolution of conflict.
- *To contribute to the future*, I will strive for the betterment of the community: myself, my university, the nation, and the world.

IUP is the largest member university of Pennsylvania's State System of Higher Education and the only one to grant doctoral degrees. For information about the System and its other member universities, visit www.sshechan.edu.

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The Eberly College of Business and Information Technology

Assistant Dean for Student and Alumni Services: Julie A. Moreland

Assistant Dean for Technology: Rajendra K. Murthy

Assistant Dean for Administration: Cynthia L. Strittmatter

Website: www.iup.edu/business

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.

College Majors and Concentrations	AACSB International Accreditation
Departments:	Mission and Vision Statements
• Department of Accounting	Office of Student and Alumni Services
• Department of Finance and Legal Studies	College of Business Student Advisory Council (COBSAC)
• Department of Management	Business Advisory Council
• Department of Management Information Systems and Decision Sciences	Academic Policies–Eberly College of Business and Information Technology
• Department of Marketing	Eberly College Student Organizations
• Department of Technology Support and Training	Internship Office
Business Minors:	School of International Management
• For Eberly College of Business and Information Technology Students	Service Units
• Minor in Business Administration for Nonbusiness Majors	Workforce and Academic Development
• Honors Program Track	

Mission Statement

The paramount mission of the Eberly College of Business and Information Technology (ECOBIT) 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. ECOBIT 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 business 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. ECOBIT will provide a high-tech, multimedia learning environment and student connections to the latest global information bank.

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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.

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AACSB International Accreditation

AACSB International–The Association to Advance Collegiate Schools of Business–has accredited the undergraduate and graduate business degree programs offered by the Eberly College of Business and Information Technology. Accreditation shows that a school fulfills its mission, meets its objectives, and maintains the high standards set by AACSB International. The outcome is managers who know how to think, communicate, solve problems, and provide leadership in the global marketplace.

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College Majors and Concentrations

- Accounting
- Business (Associate of Arts)
- Business Education
- Business Technology Support
- Finance
- Human Resource Management
- International Business
- Management (concentrations in Operations Management, General Management, and Entrepreneurship and Small Business Management)
- Management Information Systems
- Marketing

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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, Business Technology Support, Finance, Human Resource Management, International Business, Management, Management Information Systems, and Marketing. Each program includes a variety of business and business-related courses 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 (ECOBIT) with the expectation of graduating from the college unless he/she has been accepted as a degree candidate in the college.

Enrollment in all ECOBIT 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.

Our 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 ECOBIT.

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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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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 Information Technology or the Associate of Arts degree program in Business specializing in Accounting.

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Eberly College of Business and Information Technology Honors Program Track

The Eberly College of Business and Information Technology (ECOBIT) Honors Program Track is a highly selective academic program of 30 credits that provides students with increased challenges and unique learning experiences. The program emphasizes special curricula, independent research, leadership opportunities, and student/faculty interaction that are necessary to develop fully those students who possess the capacity and motivation to excel. This honors program is particularly encouraged for students who intend to seek admission to graduate or professional schools. The program includes courses in the freshman through the senior years, and specifically consists of:

- Freshman Business Honors course, which provides an advanced study opportunity in the freshman year,
- Pairing of Eberly Business Honors students with faculty and businesspeople whose research goals coincide with student interests,
- Eberly Business Sophomore cluster, consisting of 6 credits that students take in a cohort,
- Eberly Business Honors Junior Block, consisting of 18 credits that students take in a cohort,
- Eberly Honors Business Policy class for graduating seniors.

Admission to the honors program will be based on a holistic approach, including SAT scores, secondary school GPA, secondary school class rank, and a two-page self-statement describing the student's academic and career goals. Selection will be made by an ECOBIT Honors Selection Committee with representation from administration, faculty, and students.

To remain in the program, a student must maintain a cumulative 3.25 GPA and a 3.25 GPA in the business courses. The program requires 30 credits. Included in the 30 credits also are mentoring and service experiences. A cohort will consist of 20 students, and no one will be admitted to the cohort after the sophomore year.

Other business majors, who are not in the Business Honors program may, with the permission of the offering department chairperson, register for the honors section of the business courses provided the students have a Cumulative GPA of 3.25 and meet all the prerequisites for the course and provided that the section does not contain a full cohort.

Honors coursework is recorded on university transcripts, and students completing the ECOBIT Honors program will be recognized at departmental commencement ceremonies.

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Eberly College of Business and Information Technology Academic Policies

Junior Standing

To be accepted for junior standing a business major must have:

- Accumulated 57 credits or more of academic credit
- Achieved a minimum 2.0 cumulative GPA
- Successfully completed the following courses: [ACCT 201](#), [202](#), [BLAW 235](#), [BTED/COSC/IFMG 101](#), [ECON 121](#), [122](#), [ENGL 101](#), [202](#), [MATH 115](#), [214](#), [PSYC 101](#), and [QBUS 215](#).

Business majors (except 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 (ECOBIT). Those who have at least 57 credits 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 credits of 300-level Eberly College of Business and Information Technology courses.

Business majors (except 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 credits 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 credits of 300-level Eberly College of Business and Information Technology courses.

Distribution Requirement

All ECOBIT majors (except Business Education) must take a minimum of 50 percent of their degree requirements (i.e., at least 60 credits) in nonbusiness* coursework.

Residency Requirement

All of the college's majors (except Business Education) must take a minimum of 50 percent of their required business* credits 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 credits in business* coursework toward the 120-credit-degree minimum. Business credits in excess of 30 will be permitted only as credits beyond the 120 for graduation.

*For purposes of all policies above, "business" coursework consists of all ECOBIT courses except [IFMG 101](#), [QBUS 215](#), and courses in Business Education (BTED). [ECON 334](#) is also treated as a "business" course. "Nonbusiness" coursework consists of all [BTED](#) courses, [IFMG 101](#), [QBUS 215](#), and all non-ECOBIT courses except [ECON 334](#).

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Office of Student and Alumni Services

This office provides academic assistance to lower-division and probationary students and is directed by the assistant dean of the Eberly College of Business and Information Technology. Staff members are available to answer questions on the processes related to registration, change of major, removal of incompletes, grade appeals, etc.

The Internship Office

The Internship Office 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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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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Business Advisory Council

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.

College of Business Student Advisory Council (COBSAC)

COBSAC consists of the presidents and vice presidents of fourteen business student organizations. Its mission is to provide a representational body for the students of the Eberly College of Business and Information Technology. This is accomplished through representatives from each of the college's organizations in addition to business students. COBSAC provides a foundation for activities and functions with the college.

Eberly College Student Organizations

- Association for Management Information Systems
- American Society for Quality
- Finance Association
- Graduate Business Student Association
- Help Desk Institute

- International Business Association
- Management Association
- Phi Beta Lambda
- Phi Gamma Nu
- Pi Omega Pi
- Student Accounting Association
- Society for Human Resources Management
- Students in Free Enterprise
- Student Marketing Association

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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 Small Business Development Center** offers free business consulting to existing and start-up business in the preparation of business plans. The staff helps pull together a business plan suitable for presentation to a bank. This includes working with the client to put together a complete set of financial projections.

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 Contracting 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.

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Workforce and Economic Development

The Office of Workforce and Economic Development provides for the training of Pennsylvania's workers for a growing economy. It offers a comprehensive collection of workforce skill development tools as well as a Workforce Learning Resource Center, specifically designed to serve business and industry. Employers can tap into the center for training and grant funding initiatives, advice for planning job training to meet company goals and objectives, the latest research on best industry practices, complete on-line and instructor-led training courses, and rental facilities.

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-credit Business core.

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Minor in Business Administration for Nonbusiness Majors

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

Prescribed Liberal Studies:		
Mathematics: MATH 214 or 217		
Social Science: ECON 121		
Liberal Studies Electives: BTED/COSC/IFMG 101 , ECON 122		
Required Business Courses:		
		15
ACCT 201	Accounting Principles I	3cr
ACCT 202	Accounting Principles II	3cr
FIN 310	Fundamentals of Finance	3cr
MGMT 310	Principles of Management	3cr
MKTG 320	Principles of Marketing	3cr
Other Requirements: Two of the following courses with advisement:		
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BLAW 235	Legal Environment of Business	3cr
BTST 321	Business and Interpersonal Communications	3cr
IFMG 300	Information Systems: Theory and Practice	3cr
MGMT 330	Production and Operations Management	3cr

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The College of Education and Educational Technology

Interim Dean: Mary Ann Rafoth

Associate Dean for Teacher Education: Thomas J. Meloy

Associate Dean for Academic Affairs: Edward W. Nardi

Assistant Dean for Information and Communications Technology: Lloyd Onyett

Website: www.iup.edu/education

Department of Adult and Community Education	Degrees, Majors, Minors, and Concentrations
Department of Communications Media	Degree Requirements
Department of Counseling	Dual Certification
Department of Educational and School Psychology	Federal Higher Education Act Title II
Department of Foundations of Education	Field Placements
Department of Professional Studies in Education	Graduate Programs
Department of Special Education and Clinical Services	International Student Teaching Opportunities
Department of Student Affairs and Higher Education	IUP 3-Step Process for Teacher Education
Honors Track College of Education and Educational Technology	Mission and Vision Statements
Associations and Organizations	Professional Certification Application Fee
Certification Requirements	Removal of a Student Teacher from a Student Teaching Placement
Change of Major to a Teacher Education Program	Specialized Instructional Facilities
Centers and Clinics	Student Teaching
Commonwealth Requirements for Teacher Certification	

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 comprises eight multidimensional departments which offer twenty-five programs leading to the bachelor, master, and doctoral degrees. The departments in the college are Adult and Community Education, Communications Media, Counseling, Educational and School Psychology, Foundations of Education, Professional Studies in Education, Special Education and Clinical Services, and Student Affairs in Higher Education.

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 five 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. Students in this program 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.

Mission Statement

The College of Education and Educational Technology provides leading-edge development and growth opportunities for students and professionals in education and allied fields.

Vision Statement

The college will be known nationally and internationally for the preparation of practitioners in education to serve a global society. The college will be prepared to serve a clientele of graduate and undergraduate scholars from increasingly diverse backgrounds. Teacher scholars will apply diversified delivery systems to instruction, research, and service to meet the contemporary societal challenges.

Degrees, Majors, Minors, and Concentrations

Bachelor of Science degree

Communications Media, Disability Services

Bachelor of Science in Education degrees

Elementary Education (Urban Track available), Early Childhood Education/Pre K-Grade 6, Foreign Language and International Studies for Elementary Education (Spanish), Speech-Language Pathology and Audiology, Education of Exceptional Persons, Education of Deaf and Hard-of-Hearing Persons, Vocational/Technical Education

Minors

Communications Media, Deaf Studies, Education of Exceptional Persons, Educational Psychology, Educational Technology

Concentrations

Mathematics, Reading

Track

College of Education and Educational Technology Honors Program

K-12 and Secondary Education Programs

Eberly College of Business and Information Technology – Business Education

College of Fine Arts – Art Education, Music Education

College of Health and Human Services – Family and Consumer Sciences Education,
Health and Physical Education

College of Humanities and Social Sciences – English, French, Social Studies

(Anthropology, Citizenship, Economics, Geography, History, Political
Science, Sociology), and Spanish College of Natural Sciences and

Mathematics – Biology, Chemistry, Earth and Space Science, General Science,
Mathematics, and Physics

Graduate Programs in the College of Education and Educational Technology

Master of Education degree

Early Childhood Education, Education of Exceptional Persons, Educational Psychology, Elementary and Middle School Mathematics Education, Literacy, Master's in Education, Mathematics, School Counseling, Business Education/Workforce Development

Master of Arts degree

Adult and Community Education, Adult Education and Communications Technology Track, Community Counseling, Student Affairs in Higher Education, Teaching English, Teaching English to Speakers of Other Languages

Master of Science degree

Speech-Language Pathology

Graduate Level Certification

Reading Specialist, School Psychologist, Elementary/Secondary Principal, Superintendent's Letter of Eligibility

Doctor of Education degree

Administration and Leadership Studies, Curriculum and Instruction, School Psychology

Information describing master's and doctoral programs in education may be found in the current issue of the [Graduate School Catalog](#).

Association and Organizations

- American Association of Colleges of Teacher Education (AACTE)
- American Association of Health and Physical Education (AAHPE)
- American Society for Training and Development (ASTD)
- American Speech-Language-Hearing Association (ASHA)
- Association for Childhood Education International (ACEI)
- Council for Exceptional Children (CEC)
- Council of Education of the Deaf (CED)
- National Association for the Education of Young Children (NAEYC)
- National Association of School Psychologists (NASP)
- National Broadcasting Society (NBS)
- National Council for Accreditation of Teacher Education (NCATE)
- National Council of Social Studies
- National Council of Teachers of Mathematics
- National Council of Teachers of English
- Pennsylvania Department of Education
- School Psychology Association Network (SPAN)
- Teacher Education Council of State Colleges and Universities (TECSCU)

Degree Requirements

All bachelor degree candidates must satisfactorily complete a minimum of 120 credits to include all liberal studies and major requirements. All Bachelor of Science in Education degree candidates must also complete the IUP 3-Step Process for Teacher Education as defined by Chapter 354 of the Pennsylvania Education Code and in accordance with university policies.

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Honors Track College of Education and Education Technology

The Honors Track enables students to participate in advanced study in the areas of learning and instructional theory, motivation to learn, assessment of student learning, classroom management, and the psychology of adolescent education. The honors track is encouraged for exceptional students in the field of education. Honors coursework is recorded on university transcripts, and students completing the Education Honors Track will be recognized at departmental commencement ceremonies.

Eligibility and Requirements: This track is open by permission to Education majors. To apply, an application should be filed with the Educational and School Psychology Department chairperson. Students may apply upon acceptance to IUP, or current students may make application following completion of one semester of coursework. Applicants must have a minimum 3.25 GPA in total university or high school coursework to apply. Students accepted prior to taking [EDSP 102](#) complete [EDSP 102/H/](#); [EDSP 477/H/](#); two of the following electives: [EDSP 373/H/](#), [EDSP 376/H/](#), or [EDSP 378/H/](#); and [EDSP 493/H/](#). Students accepted following completion of a nonhonors section of [EDSP 102](#) will be required to take all three of the courses offered ([EDSP 373/H/](#), [EDSP 376/H/](#), and [EDSP 378/H/](#)) in addition to [EDSP 477/H/](#) and the Honors Internship. Students must earn at least a B in each course completed for the track to proceed and maintain a 3.25 cumulative GPA. To determine how Honors Track courses will be integrated into existing requirements for their major, students should consult their advisors.

College of Education and Educational Technology Honors Track

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Required Courses:		
EDSP 102/H/	Educational Psychology	3cr
EDSP 477/H/	Assessment of Student Learning: Design and Interpretation of Educational Measures	3cr
EDSP 493/H/	Educational Psychology Honors Internship	1cr
Two or three courses from the following: (1)		
EDSP 373/H/	Psychology of Adolescent Education	3cr
EDSP 376/H/	Behavior Problems	3cr
EDSP 378/H/	Learning	3cr
(1) Students accepted following completion of a nonhonors section of EDSP 102 are required to take all three of the courses offered. Students who complete EDSP 102/H/ are required to take two of the three courses offered.		

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Change of Major to a Teacher Education Program

Currently enrolled students who wish to make application for a teacher education program may get an application for a Change of Major from the college dean's office or department that houses the major. Secondary education programs are housed in the college of their respective discipline. A minimum cumulative GPA of 3.0 is required for all education majors by Chapter 354 of the Pennsylvania Education Code.

Students wishing to be considered as Elementary Education, Early Childhood Education/PreK-Grade 6, and Special Education majors must also submit with their application documentation of their successful completion of Praxis I (PPST). Applications will be reviewed three times a year beginning the third Monday of September, February, and June. Students approved for a Change of Major will be notified in writing within fourteen business days. Students admitted to the new major will be advised by a faculty advisor in the major and permitted to register for major courses during the next registration period.

Change of Major applications must be submitted to the appropriate academic department chairperson. Applications are reviewed by the chairperson and/or teacher education coordinator. The recommendation is then forwarded to the college dean's office for final review and action. Students must also comply with the IUP 3-Step Process for Teacher Education as appropriate to their current status. This information can be viewed on the College of Education and Educational Technology website at www.iup.edu/education.

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IUP 3-Step Process for Teacher Education

Step 1. Application for Teacher Education

Eligibility requirements for enrolling in the professional education sequence which includes [EDEX 300/301](#), [EDUC 242](#), [342](#), [442](#), [EDSP 477](#).

- A minimum of 48 credits and a 3.0 cumulative GPA
- Successful completion of Praxis I Examinations (PPST) with the minimum score established by the PDE
- Completion of the following courses as defined by the major with a grade of C or higher:
[ENGL 101](#), [ENGL 121*](#), [EDSP 102](#), [COMM 103*](#), 6 credits in Math*
*See major for specific program requirement
- Act 34 and Act 151 Clearances
- Completion of speech, hearing, and TB test
- Satisfactorily completed essay
- Reviewed evidence of starting an electronic portfolio to include CD and portfolio evaluation
- Advisor's recommendation and signature

IUP education majors are encouraged to take the Praxis I as soon as they are prepared for the exams. Extensive review materials and specialized workshops are available. Students who are not successful after two attempts are required to meet with the associate dean for Teacher Education for a consultation.

Step 2. Application for Student Teaching

Eligibility requirements for student teaching placement:

- Successful completion of Step 1
- A 3.0 cumulative GPA
- Successful completion of Praxis II Examination. Scores must meet PDE requirements at the time the candidate makes application for teacher certification
- Act 34 and Act 151 (annual update required)
- Proof of liability insurance (annual update required) - PSEA membership or private insurance (must have a minimum of \$1,000,000 per claim and an aggregate of \$3,000,000 per occurrence if obtained via private insurance). Effective August 31, 2006.
- Completion of all major courses, methods courses, and liberal studies sciences courses with a grade of C or higher
- Updated electronic portfolio review to include CD and portfolio evaluation
- Advisor's recommendation and signature

Step 3. Application for Graduation and Pennsylvania Teacher Certification

Eligibility requirements for graduation:

- Successful completion of Step 2
- Successful completion of Student Teaching
- A 3.0 cumulative GPA
- Final approval of electronic portfolio to include CD and portfolio evaluation
- Completed application for graduation

- Completed application for Pennsylvania Teacher Certification
- The recommendation of your academic advisor
- The recommendation of the IUP Teacher Certification Officer

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 sequence of channels: academic advisor, chairperson, and finally the associate dean for Teacher Education. 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 described process. If, at the conclusion of the appeals process, the student is still in disagreement with the findings, the student may request review before the Teacher Education Appeals Committee of the Academy for Teacher Preparation. The committee will be composed of three members representing the faculty of the Academy for Teacher Education Preparation, the Teacher Education Coordinator's Council, and senior teacher preparation students.

To initiate an appeal, the student must file a form obtained at the Office of the Associate Dean for Teacher Education. 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 associate dean for Teacher Education. A final decision rests with the associate dean for Teacher Education, who is the certification officer.

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Federal Higher Education Act Title II

This act requires all institutions that educate teachers to publish annually the passing rates on Praxis tests for their Program Completers. The annual report for IUP can be found at the website www.iup.edu/education.

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 their cooperating master teachers. To gain admission to student teaching, applicants must have achieved a minimum cumulative GPA of 3.0. In addition, students must complete all requirements of the 3-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 3.0 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. He or she should also check the College of Education and Educational Technology web pages regularly for the most current information (www.iup.edu/education).

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. All official policies and procedures, regarding the student teaching experience, are included as part of the College of Education and Educational Technology's official Handbook for Student Teaching. Copies of the handbook are available for purchase at the Co-op Bookstore. The handbooks are also available for download as part of the Teacher Education website at www.iup.edu/education.

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Field Placements

The Office of Teacher Education determines final placements for all fieldwork conducted in the public schools. In accordance with university policy, students must be officially enrolled in the course for which the fieldwork is being done. Students entering a classroom without being duly registered are in violation of university policy and may place themselves at risk legally. Therefore, registration for all field placements is mandatory and requires payment of a \$100 placement fee.

All official policies and procedures for field experiences are included as part of the Field Experience I and II handbook, which can be purchased at the local Copies Now store. The handbooks are also available for download as part of the Teacher Education website at www.iup.edu/education.

International Student Teaching Opportunities

IUP students enrolled as teacher education majors in most certification areas are eligible to participate in a half-semester student teaching abroad

program. Early Childhood Education/PreK-Grade 6 majors may not participate in international student teaching assignments. Students participate in this program during the semester in which they register to student teach, either in the fall or the spring. They are assigned to a teaching site in the United States for the first half of the semester. The second half of the student teaching experience is completed in an overseas site. The program provides students with teaching experiences in one of the following countries: Copenhagen, Denmark; London, England; Worcester, England; Paris, France; Malahide, Ireland; and Gronigen, The Netherlands. Teaching assignments are made for most certification areas.

Students wishing to participate in this program must have a cumulative GPA of 3.0 or better and a GPA of 3.0 or better in the professional core subjects and the major. The student teacher must demonstrate competency in effective classroom teaching practices, receiving a minimum grade of B in the midsemester evaluation. Upon approval of the IUP supervisor, the international student teaching assignment is confirmed.

In addition to IUP tuition and fees, students must pay a study abroad fee of \$500. Travel costs, personal expenses, and living accommodation costs for room/board (paid to the host family) are the responsibility of the student. Living accommodations are arranged with host families near teaching sites.

Applications may be made anytime; however, preference is given to students who submit application materials one year before they student teach. Interviews for tentative acceptance will be scheduled with the international Student Teaching Committee two semesters prior to student teaching. For more information, contact the Department of Professional Studies in Education at 724-357-2400.

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Removal of a Student Teacher from a Student Teaching Placement

The policy for the removal of a student teacher from a student teaching placement can be found at the website www.iup.edu/education.

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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 3-Step Process. The requirements include:

- a minimum grade of C in all professional education courses and a 3.0 cumulative GPA
- 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 I, Praxis II, and Praxis Specialty Area Tests
- successful completion of PDE Form 430
- competency in working with students with special needs (Special Education)
- completion and submission of electronic portfolio, including CD and portfolio evaluation

Applications for certification cannot be processed until the student completes the B.S.Ed. degree or its equivalent.

Commonwealth Requirements for Teacher Certification

(Excludes Vocational Instructional Certification. See "Center for Career and Technical 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 a statement attesting to 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.

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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 Deaf and Hard-of-Hearing Persons or Education of Exceptional Persons; Majors in Education of Deaf and Hard-of-Hearing Persons or Education of Exceptional Persons may do this in Elementary Education.

Application forms 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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Professional Certification Application Fee

All applicants for Teacher Certification or Professional Education Certifications from the Commonwealth of Pennsylvania through IUP will be assessed a \$75 application fee. Applicants for 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 \$35 processing fee per request.

Centers and Clinics

The six centers and one clinic supported by the College of Education and Educational Technology offer a variety of services to the university community and citizens of the Commonwealth of Pennsylvania to include diagnostic testing, remedial services, assessment, and instruction.

The **Speech and Hearing Clinic** is staffed by speech-language pathology 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 School 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 psychoeducational 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.

The **Center for Rural Gifted Education** offers educator training, resources, and consultation for gifted and high-ability students in rural Pennsylvania and their families. Assessment and child/family counseling is provided in conjunction with the IUP Child Development Center. This center is supported by faculty from the departments of Special Education and Clinical Services and Educational and School Psychology.

The **Center for Educational and Program Evaluation (CEPE)**, housed in the Department of Educational and School Psychology, provides services to school districts, human service agencies, educational consultants, and publishers. Specifically, the CEPE provides: consultation and program evaluations, data analysis, consultation and program evaluation design for grant submissions, and workshops and in-service presentations. The CEPE, under close faculty supervision, trains graduate students in research design, data analysis, and program evaluation. The CEPE can also help meet Act 48 mandated staff development requirements.

The **Literacy Center**, housed within the Department of Professional Studies in Education, provides opportunities for graduate students in the M.Ed. in Literacy program to gain experience toward a Reading Specialist Certification. The center offers assessment and instruction in reading and writing for children and adolescents. These instructional sessions are offered in the fall, spring, and summer terms. Family literacy services are also available.

The **Center for Counselor Training and Services (CCTS)** seeks to advance the knowledge base of undergraduate and graduate students as well as mental health professionals through the promotion and creation of professional trainings. The center is staffed by faculty from the Department of Counseling. To successfully implement its mission statement, the CCTS has been established with the following goals in mind: 1) organize regularly scheduled professional trainings on mental health and educational topics relevant to the counseling profession; 2) offer opportunities for mental health professionals and educators in the region to learn from nationally and internationally recognized leaders and educators in the counseling profession; 3) enable the Department of Counseling to enhance its relationships and professional reputation with students, other IUP departments, professionals in the region, alumni, internship supervisors, and national leaders; 4) provide consultation services for school districts and counseling agencies; and 5) create and offer literature (pamphlets and books) and audiovisual products for educators and mental health professionals.

The **Applied Media and Simulation Games Center (AMSGC)** is housed in the Department of Communications Media. The AMSGC is dedicated

to exploring current and emerging multimedia, simulation, and game technologies that can enhance communication experiences and environments. The AMSGC aims to create an interdisciplinary juxtaposition of entertainment and learning, teaching and technology, conceptual foundations and concrete skills. AMSGC students will receive a conceptual understanding of communications media, a practical knowledge of the development of multimedia, interdisciplinary grounding in their field, and a grasp of how to apply what they have learned.

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Specialized Instructional Facilities

The **Audio Studio** has four-track analog capability and eight-track digital capability. Students are able to digitally master tracks to 48 KHz quality. The analog audio component is centered around a 24-port console capable of eight stereo outputs. Peripheral equipment includes CD, mic and cassette inputs, and various modern signal processing equipment for post production activities.

The **Digital Media Institute** provides students with real-world experience in pre-production, production, and post-production of digital media. The institute's primary technologies utilize advanced video techniques, such as "green screen" and digital video recording. They also include related media technologies such as animation, digital photography, video streaming, advanced audio production, and interactive software construction with video, audio, or animation components.

The **Graphics Multimedia Lab**, located on the ground floor of Stouffer Hall, provides a variety of software applications, black-and-white and color printing capabilities, color scanner, and a negative film scanner. The facility is used for instruction in graphics, as well as multimedia production. Software applications available in the lab include Macromedia Fireworks, Adobe Photoshop, Adobe Illustrator, and Macromedia Authorware.

The **Portfolio Assistance Center** offers assistance in the completion of the electronic portfolio. The staff can assist in the use of the scanners, digital cameras, and video editing hardware and software. A wealth of other software programs are available, along with workshops to assist with the digital portfolio.

The **Radio Station** at IUP, WIUP-FM, is a 1600-watt, noncommercial, student-operated facility. Students from a variety of majors volunteer as DJs and news and sports staff members. There are also many opportunities for students to host a variety of different types of music shows.

The **Speech-Language Pathology Video Observation Lab** is housed in the IUP Speech and Hearing Clinic. Funded by a Pennsylvania Department of Education Link-to-Learn Higher Education Technology grant in 2002, this is the only lab that utilizes a unique system for the digital video capture of students' speech and language diagnostic or treatment sessions. This system facilitates students' self-analysis of their sessions and supervisor feedback to students. The resulting digital files can also be used in classroom instruction or as components of student portfolios.

The **Television Station** broadcasts over a cable system that has a potential audience of 100,000 people. WIUP-TV has approximately 100 students involved in management and production. The facility is student run with a faculty advisor and features state-of-the-art hardware and software.

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The College of Fine Arts

Dean: Michael J. Hood

Assistant Dean for Curriculum and Instruction: Vacant

Website: www.iup.edu/finearts

[Department of Art](#)

[Department of Music](#)

[Department of Theater and Dance](#)

[Interdisciplinary Fine Arts Majors](#)

[Minor in Entrepreneurship](#)

[College Majors](#)

[Mission Statement](#)

The College of Fine Arts has professional degree programs in Art, Music, Theater and Dance, and Interdisciplinary Fine Arts and awards the Bachelor of Arts and the Bachelor of Fine Arts degrees. Programs leading to certification to teach art and music are offered in cooperation with the College of Education and Educational Technology. This partnership leads to the Bachelor of Science in Education degree. The college also offers minors in art, music, and theater and dance.

With one of the largest arts programs in the commonwealth, IUP's College of Fine Arts offers dedicated facilities for each department augmented by a 1,600-seat auditorium, two theaters, three art galleries, a university museum, a recital hall, a computer laboratory, and a state-of-the-art dance studio. In the fall of 2005, a large, renovated teaching location for sculpture and clay opened for art students, and in the spring of 2006, a newly renovated and beautifully enlarged music building opened for music students and faculty. The music facility is one of the best university music teaching facilities in Pennsylvania, while the new location for sculpture and clay offers large open space providing students the opportunity to increase their undergraduate art experience. 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, and nationally. The college has an active international program for student exchange with a long-established field-based program.

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)–B.A.
- Art Education–B.S.Ed.
- Art Studio–B.F.A.
- Interdisciplinary Fine Arts–B.A. (Dance Arts or Musical Theater Track)
- Music (History and Literature, General Studies, or Theory and Composition Track)–B.A.
- Music Education–B.S.Ed.
- Music Performance–B.F.A.
- Theater–B.A.

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Interdisciplinary Fine Arts Majors

The Interdisciplinary Fine Arts major is available for students desiring to combine coursework within the Departments of Art, Music, and Theater and Dance and selected courses within other colleges. Students must enter into a college department through a portfolio review or audition. Students select specific “tracks” which are tailored to the following areas: Art Management, Musical Theater, Interactive Arts, and Dance Arts. This program is designed around core components within the liberal arts and the fine arts and is also specifically designed for the student who has exceptional skill in more than one area of the arts. The newly designed interdisciplinary major also includes the opportunity for an internship. The internships would include work within a museum, galleries, nonprofit arts organizations, and with the performance arena.

Two tracks are available for students beginning with the Fall, 2006, semester. They are Dance Arts and Musical Theater. The Arts Management and Interactive Arts tracks are slated for student selection in the Fall, 2007, semester. This interdisciplinary program is coordinated through the Office of the Dean, College of Fine Arts, where additional information is available.

Musical Theater Track

The Interdisciplinary Fine Arts degree focuses on music theater with a full integration of music, dance, and theater. Students must audition in music, theater, and dance. In order to be accepted into this track, a student would need to pass the audition in music and a second audition in either theater or dance. As students plan their program, they need to be aware that a State System Board of Governors’ policy states that at least 40 percent of the coursework in a degree must consist of courses numbered 300 and above.

Bachelor of Arts–Interdisciplinary Fine Arts/Musical Theater Track (1)

Liberal Studies: As outlined in Liberal Studies section with the following specifications:		53
Fine Arts: DANC 102 or MUHI 101		
Mathematics: 3cr		
Liberal Studies Electives: 9cr		
Major:		
Required Courses:		40
Dance:		6-12cr
DANC 102	Introduction to Dance (2)	3cr
DANC 150	Fundamentals of Dance (3)	3cr
DANC 260 or DANC 485	Beginning Jazz Dance (4) or Dance Studio: Jazz	3cr
DANC 270 or DANC 485	Beginning Ballroom and Tap Dance (5) or Dance Studio: Ballroom and Tap	3cr
Music:		9-12cr
MUHI 101	Introduction to Music (6)	3cr
MUSC 111	Theory Skills I	2cr
MUSC 115	Theory I	3cr
APMU 105	Voice I	1cr
APMU 155	Voice II	1cr
APMU 205	Voice III	1cr
APMU 255	Voice IV	1cr

Theater:		9cr
THTR 111	Foundations of Theater	3cr
THTR 240	Acting I	3cr
THTR 487	Acting Studio	3cr
Ensemble/Production Requirements: (7)		4-6cr
MUSC 126	Music Theater	1-3cr
THTR 486	Practicum in Production (8)	.5-3cr3cr
Required Electives: (9)		4-9
Dance:		
DANC 250	Beginning Contemporary Dance	3cr
DANC 280	Beginning Ballet	3cr
DANC 290	Ethnic Dance	3cr
DANC 351	Choreography	3cr
DANC 485	Dance Studio: Modern	3cr
DANC 485	Dance Studio: Ballet	3cr
Music:		
MUSC 112	Theory Skills II	2cr
MUSC 116	Theory II	3cr
MUSC 153	Class Piano I	1cr
MUSC 154	Class Piano II	1cr
MUSC 351	Italian Diction and Literature	1cr
MUSC 353	French Diction and Literature	1cr
MUSC 354	German Diction and Literature	1cr
Theater:		
THTR 116	Fundamentals of Theatrical Design	3cr
THTR 120	Stagecraft	3cr
THTR 122	Costume Workshop	3cr
THTR 130	Stage Voice	3cr
THTR 131	Stage Movement	3cr
THTR 221	Basic Stage Lighting	3cr
THTR 223	Makeup for the Stage	3cr
THTR 341	Acting Styles	3cr
THTR 350	Directing	3cr
THTR 484	Directing Studio	3cr
THTR 487	Acting Studio	3cr
Controlled Electives: (10)		0-6
APMU 305	Voice V	1cr
APMU 355	Voice VI	1cr
APMU 405	Voice VII	1cr
APMU 455	Voice VIII	1cr
MUSC 126	Music Theater	1-3cr
THTR 486	Practicum in Production	4cr
Free Electives:		21-27
Total Degree Requirements:		120
<p>(1) State System Board of Governors' policy states that at least 40 percent of the coursework in a degree must consist of courses numbered 300 and above.</p> <p>(2) If a student in this track selects DANC 102 for the Liberal Studies requirement in the Fine Arts, this requirement is satisfied by that choice.</p> <p>(3) Students with considerable dance training in three or more dance genres would not be required to take this course.</p> <p>(4) Choice of level of Jazz course would depend upon previous training level of student.</p> <p>(5) Choice of level of Ballroom/Tap course would depend upon previous training level of student.</p>		

- (6) Required for major unless [MUHI 101](#) has been used for the Liberal Studies Fine Arts requirement.
- (7) Ensemble/production experiences over a minimum of 6 semesters. At least two production experiences need to be nonperformance experiences.
- (8) In the last year of this track, students would be required to do a major production responsibility under [THTR 486](#) as a Senior Project in Music-Theater.
- (9) As advised and in addition to any course listed above as an alternative.
- (10) As advised.

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Dance Arts Track

The Interdisciplinary Fine Arts/Dance Arts Track focuses on the art of dance with a primary integration of dance and theater and a secondary integration of music and/or art. Students can be admitted to this track after completion of both dance and theater auditions and/or interviews.

Liberal Studies: As outlined in Liberal Studies section with the following specifications:		53
Fine Arts: MUHI 101		
Liberal Studies Electives: 9cr, no courses with FIAR prefix		
Major: (1)		
Required Courses:		35-39
Dance:		9cr
DANC 102	Introduction to Dance	3cr
DANC 351	Choreography	3cr
DANC 355	Dance Production: Administration to Creation	3cr
Dance Technique:		17-21cr
DANC 250 <i>or</i> DANC 485	Beginning Contemporary Dance <i>or</i> Dance Studio: Modern	3cr
DANC 260 <i>or</i> DANC 485	Beginning Jazz Dance <i>or</i> Dance Studio: Jazz	3cr
DANC 270 <i>or</i> DANC 485	Beginning Ballroom and Tap Dance <i>or</i> Dance Studio: Ballroom and Tap	3cr
DANC 280 <i>or</i> DANC 485	Beginning Ballet <i>or</i> Dance Studio: Ballet	3cr
DANC 290	Ethnic Dance	3cr
THTR 486	Practicum in Production (2)	2-6cr
Theater: Select one course from the following		3cr
THTR 116 , 122 , 221 , 223		3cr
Ensemble/Production/Exhibition Requirements:		6cr
MUSC 126	Music Theater	1-3cr
THTR 486	Practicum in Production: (Dance, Theater, Musical, or Opera)	1-3cr
THTR 486	Practicum in Production: Senior Project	1-3cr
Controlled Electives: (as advised)		7-11
ART 112	Fundamentals of Drawing	3cr
ART 113	Three-Dimensional Design	3cr
ART 215	Sculpture	3cr
DANC 353	Dance Curriculum and Instruction	3cr
DANC 485	Dance Studio: Modern	3cr
DANC 485	Dance Studio: Ballet	3cr
DANC 485	Dance Studio: Ballroom and Tap	3cr
DANC 485	Dance Studio: Jazz	3cr
FSMR 456	Historic Costume	3cr
HPED 221	Human Structure and Function	3cr
MUSC 110	Fundamentals of Theory	3cr
MUSC 115	Theory I	3cr
MUSC 126	Music Theater	3cr
THTR 116	Fundamentals of Theatrical Design	3cr
THTR 122	Costume Workshop	3cr

THTR 221	Basic Stage Lighting	3cr	
THTR 223	Makeup for the Stage	3cr	
THTR 321	Stage Lighting Design	3cr	
THTR 322	Costume Design	3cr	
THTR 486	Practicum in Production	2-6cr	
Free Electives:			21
Total Degree Requirements:			120
<p>(1) Total credits for Major Required and Controlled Electives must be 46.</p> <p>(2) The foci of these practicum options could be in dance, theater, musical, or opera. In addition, at least 2cr would be required for a senior thesis project in practicum in dance production.</p>			

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Minor in Entrepreneurship (for Fine Arts Students)

The minor in Entrepreneurship for nonbusiness majors program assumes no prior knowledge of business. Fine arts students are usually involved in starting and running their own business, developing and starting small performing groups, and developing and running nonprofit community theaters. Students would develop the skills necessary to evaluate opportunities within their industry. They would learn, among other things, to 1) analyze their competition, 2) develop marketing and financial plans, 3) explain intellectual property rights, 4) negotiate contracts, and 5) write a business plan that could be used to obtain financing from banks, investors, or other sources of funding. These skills are all central to the creation and development of new ventures. This is a joint effort of four departments and represents an 18-credit minor for fine arts majors. The program is designed to give nonbusiness majors a general background in starting and running a small business.

Minor–Entrepreneurship

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(for Fine Arts Majors)

Required Courses:			18
ACCT 200	Foundations of Accounting	3cr	
BTST 321	Business and Interpersonal Communications	3cr	
MGMT 275	Introduction to Entrepreneurship	3cr	
MGMT 325	Small Business Management	3cr	
MGMT 450	Case Studies in Arts Management	3cr	
MKTG 311	Arts Marketing	3cr	

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The College of Health and Human Services

Dean: Carleen C. Zoni

Executive Assistant to the Dean: Dolores Brzycki

Director, Academic Planning and Assessment: Jacqueline Beck

Website: www.iup.edu/healthhumanserv

[Department of Criminology](#)

[Department of Culinary Arts](#)

[Department of Food and Nutrition](#)

[Department of Health and Physical Education](#)

[Department of Hospitality Management](#)

[Department of Human Development and Environmental Studies](#)

[Department of Industrial and Labor Relations](#)

[Department of Nursing and Allied Health Professions](#)

[Department of Safety Sciences](#)

[Credit Certificate Programs](#)

[College Majors and Minors](#)

The College of Health and Human Services comprises nine multifaceted departments which offer programs leading to seventeen baccalaureate degrees and six master's degrees, five minors, two credit-bearing certificate programs, and one noncredit certificate program. The departments in the college are Criminology, Culinary Arts, Food and Nutrition, Health and Physical Education, Hospitality 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, cooperative 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 mission of the College of Health and Human Services is to serve the public interest by preparing professionals for applied professional disciplines. Graduates will be compassionate, affirm high personal and professional standards, provide future leadership, and be committed to creating and advancing knowledge in their discipline.

College Majors

- Child and Family Studies

- Clinical Laboratory Science
- Criminology (Pre-law Track available)
- Culinary Arts (nondegree Certificate program)
- Family and Consumer Sciences Education
- Fashion Merchandising
- Health and Physical Education
- Hospitality Management
- Industrial and Labor Relations (graduate program only)
- Interior Design
- Nuclear Medicine Technology
- Nutrition (Tracks available: Dietetics, Nutrition)
- Nursing (Tracks available: Licensed Practical Nurse, Registered Nurse)
- Physical Education and Sport (Tracks available: Aquatic, Athletic Training, Exercise Science, Sport Administration)
- Respiratory Care (Certified Respiratory Therapist Track available)
- Safety Sciences

College Minors

- Child and Family Studies
- Criminology
- Information Assurance
- Nutrition
- Safety Sciences

Credit Certificate Programs

- Driver Education
- Gerontology

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The College of Humanities and Social Sciences

Dean: Yaw A. Asamoah

Associate Dean: Alphonse N. Novels

Assistant Dean for Technology: Benjamin K. Dadson

Dean's Associate: Veronica M. Watson

Website: www.iup.edu/humanities

Department of Anthropology	Asian Studies Minor
Department of Economics	Latin American Studies Minor
Department of English	Pan-African Studies Studies Minor
Department of French and German	College Foreign Language Requirements
Department of Geography and Regional Planning	College Majors and Minors Listing
Department of History	Critical Languages Program
Department of Journalism	Degree Requirements
Department of Philosophy	Degrees
Department of Political Science	Departmental Honors Tracks
Department of Religious Studies	Foreign Study Programs
Department of Sociology	Internship Programs
Department of Spanish	Junior-Year Review
Women's Studies Program	Pre-Law Track

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.

College Majors

- Anthropology
- Economics
- Economics/Mathematics
- English
- English Education
- French
- French Education
- French for International Trade
- Geography
- German
- German Education
- German for International Trade
- Government and Public Service

College Minors

- Anthropology
- Applied Social Research
- Asian Studies
- Economics
- English
- French
- German
- Geography
- History
- Human Studies
- International Studies
- Journalism
- Latin American Studies

- | | |
|---|------------------------------------|
| History | Pan-African Studies |
| • International Studies/Political Science | • Philosophy |
| • Journalism | • Political Science |
| • Philosophy | • Regional Planning |
| • Political Science | • Religious Studies |
| • Regional Planning | • Sociology |
| • Religious Studies | • Sociology of Disability Services |
| • Social Science Education | • Spanish |
| • Social Studies Education | • Women's Studies |
| • Sociology | |
| • Spanish | |
| • Spanish Education | |
| • Spanish for Elementary Education | |
| • Spanish for International Trade | |

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Degrees

The departments of Anthropology, Economics, English, French and German, Geography and Regional Planning, History, Journalism, Philosophy, Political Science, Religious Studies, Spanish, and Sociology offer work leading to a Bachelor of Arts degree. The Bachelor of Science degree is offered in Regional Planning. The Bachelor of Science in Education is offered in English, French, German, Social Science, Social Studies, and Spanish.

Master of Arts or Master of Science degrees are offered by English, Geography and Regional Planning, History, Political Science, and Sociology. The English and Sociology departments offer the Doctor of Philosophy degree. Information about these programs may be obtained from the School of Graduate Studies and Research.

Junior-Year Review

A review of degree requirements is completed for all students who are candidates for a degree offered by the College of Humanities and Social Sciences. The purpose of the review is to verify that a student is on track to meet graduation requirements by their anticipated graduation date. Completed junior-year review reports must be approved by the department chairperson and the associate dean.

It remains the student's responsibility to apply for graduation by the announced deadline. Failure to meet the graduation application deadline may result in a delay in the student's graduation.

Degree Requirements

In addition to the university's Liberal Studies requirements, students seeking a baccalaureate degree in this college 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 dual baccalaureate degree or 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 (description follows) applies without exception to all Humanities and Social Sciences four-year degree programs.

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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, 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.

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 credits.

The following languages may be available for study: Arabic, Chinese, Dutch, Finnish, Modern Greek, Hebrew, Hindi, Hungarian, Japanese, Korean, Portuguese, Russian, Swahili, and Swedish.

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Foreign Study Programs

College majors may be interested in the various Foreign Study Programs and Tours offered. Credits 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 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 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 [FNLG 100](#) and pay a foreign exchange fee for each semester in the program. For further information, contact the French and 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 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 credits of undergraduate or graduate credit. Internship opportunities are available for students with fluency in Spanish. For details and brochures, contact the Spanish Department.

IUP at Costa Rica Summer Program: The Department of Spanish 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 Department.

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.

Departmental Honors Tracks

Departmental honors tracks in the College of Humanities and Social Sciences enable eligible students to participate in advanced study in their disciplines. These tracks are particularly encouraged for students who intend to seek admission to graduate or professional schools.

Honors coursework is recorded on university transcripts and students completing the departmental honors tracks will be recognized at departmental commencement ceremonies. For detailed guidance in departmental honors tracks, students should consult the description in their major department and meet with their advisors.

Internship Programs

Humanities and Social Sciences departments have 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.

Asian Studies Minor

The Asian Studies Minor is designed to increase students' knowledge of the world's largest, most populous, and most diverse continent. Its purpose is to provide a focus area within liberal studies requirements of the IUP curriculum. The minor supplies an opportunity to increase students' 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 credits, at least 12 of which must be outside of their major. [ASIA 200](#) is required of all Asian Studies minors. At least four courses (12 credits), including at least two different departmental prefixes, must come from Category A: Exclusively Asia-Focused. One Asian "Critical Language" course may apply to the Category A requirement. The remaining course 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. Students who complete courses through established study-abroad centers in an Asian country can apply for credit towards the Asian Studies Minor. Each request for transfer credit will be considered on a case-by-case basis by the Asian Studies Committee.

- **Required Course:** [ASIA 200](#) Introduction to Asian Studies
- **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 social 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 social systems and cultures indigenous to the region. The remainder of the course material establishes relevant comparisons and contexts for Asian themes.

Minor–Asian Studies (1, 2)

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Required Course:			3
ASIA 200	Introduction to Asian Studies	3cr	
Category A: Exclusively Asia-Focused: (3)			12-15
ANTH/SOC 272	Cultural Area Studies: China	3cr	
ANTH/SOC 273	Cultural Area Studies: Southeast Asia	3cr	
ARHI 224	Introduction to Asian Art	3cr	
ARHI 423	Art of Japan	3cr	
ARHI 425	Art of China	3cr	
GEOG 256	Geography of East Asia	3cr	
GEOG 257	Geography of South and Southeast Asia	3cr	
HIST 206	History of East Asia	3cr	
HIST 330	History of the Islamic Civilization	3cr	
HIST 331	Modern Middle East	3cr	
HIST 332	Modern Early China	3cr	
HIST 334	History of Modern China	3cr	
HIST 337	History of Modern Japan	3cr	
PLSC 383	Political Systems: Asia	3cr	

PLSC 384	Political Systems: Middle East	3cr
RLST 220	Buddhist Thought and Practice	3cr
RLST 311	Eastern Philosophy	3cr
RLST 370	Religions of China and Japan	3cr
RLST 373	Advanced Studies in Buddhism	3cr
RLST 375	Religions of India	3cr
RLST 380	Islam	3cr
<i>Asian Critical Languages:</i>		3cr 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		
CRLG 109/159/209/259 Korean I, II, III, IV		
Category B: Substantially Asia-Focused:		0-3
BTST 342	Intercultural Business Communication	3cr
ECON 339	Economic Development I	3cr
ECON 345	International Trade (Asia case study)	3cr
ECON 346	International Finance (Asia case study)	3cr
ECON 350	Comparative Economic Systems	3cr
ENGL 344	Ethnic American Literature	3cr
ENGL/FNLG 396	The Literature of Emerging Nations	3cr
ENGL 397	Global Literature	3cr
ENGL 398	Global Genres	3cr
GEOG 104	Geography of the Non-Western World	3cr
GEOG 254	Geography of Russia and the Soviet Sphere	3cr
MGMT 452	Comparative Management	3cr
MGMT 454	International Competitiveness	3cr
MGMT 459	Seminar in International Management	3cr
MKTG 350	International Business	3cr
MKTG 430	International Marketing	3cr
PLSC 101	World Politics	3cr
PLSC 285	Comparative Government II: Non-Western Political Systems	3cr
RLST 110	World Religions	3cr
SOC 362	Racial and Ethnic Minorities	3cr
<p>(1) The topics in such courses as ENGL 399 Major Global Authors, HIST 403 Topics in Non-Western History, and ITST 281 Special Topics in Non-Western Studies vary (check with instructor). When concerned with Asian Studies, these courses can count towards the Asian Studies Minor with the approval of the program coordinator.</p> <p>(2) With the program coordinator's approval, 3cr of an internship (493) may be counted towards the Asian Studies Minor.</p> <p>(3) Courses need to be in at least two different prefixes.</p>		

For further information on the Asian Studies Minor, contact the College of Humanities and Social Sciences, 201 McElhane Hall, 724-357-2280.

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Latin American Studies Minor

The Latin American Studies Minor is a multidisciplinary program that brings together courses focusing on the history, literature, culture, geography, political economy, and social organization of Latin America. This minor is designed to increase awareness and understanding of Latin American peoples, environments, and cultures. Its purpose is to combine an area focus with the liberal studies requirements of the IUP curriculum. The minor helps IUP students to enrich their understanding of world cultures and of the complexity of cultural diversity in a changing world. In addition, one goal is to expand student awareness of the contributions persons of this region have made to the United States and internationally. A Latin American Studies Minor is thus valuable in an increasingly diverse society, especially since people of Hispanic descent represent the largest minority population in the United States.

Students must complete 18 credits to earn a minor in Latin American Studies. In keeping with the multidisciplinary approach of the program,

students are encouraged to take courses from departments throughout the university. Students can count no more than 9 credits from the same department (or 6 credits within their major) toward the minor. At least three courses (9 credits) must come from Category A: Exclusively Latin America-Focused. Other courses may come from either Category A or Category B: Substantially Latin America-Focused. Special topics and independent study courses may be applied to either category with the approval of the Latin American Studies Committee. Students enrolled in the colleges of Natural Sciences and Mathematics and Humanities and Social Sciences who are considering a minor in Latin American Studies are strongly encouraged to take SPAN 201 to complete their Liberal Studies language requirement. Students should consult with the program coordinator to determine if there are any prerequisites for the courses listed below. Through counseling, the program coordinator will work with individual departments to determine if students might be qualified for prerequisite exemptions. Students who complete courses through established study-abroad centers in Latin America can apply for credit towards the Latin American Studies Minor. Each request for transfer credit will be considered on a case-by-case basis by the program coordinator.

- **Required Course:** [LAS 480](#)
- **Category A:** Exclusively Latin America-Focused courses are devoted to a combination or subset of the following topics: the countries which compose Latin America, its physical environments, and the human systems and cultures of the region.
- **Category B:** Substantially Latin America-Focused courses have significant material specifically about the countries which compose Latin America, its physical environments, and the human systems and cultures of the regions. The remainder of the course materials establishes relevant comparisons and contexts for Latin American themes.

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Minor–Latin American Studies

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Required Courses:			3
LAS 480	Latin American Studies Seminar	3cr	
Category A: Exclusively Latin America-Focused Courses			9-15
ANTH/SOC 274	Cultural Area Studies: Latin America	3cr	
ANTH/LAS 370	Latinos and Diasporas	3cr	
ANTH 460	Ethnographic Field School (1)	3cr	
ENGL 344	Ethnic American Literature (1)	3cr	
GEOG 252	Geography of Latin America	3cr	
GEOG 484	Field Studies in Geography and Social Studies (1)	3cr	
HIST 208	Survey of Latin American History	3cr	
HIST 350	History of Latin America: Colonial Period	3cr	
HIST 351	History of Latin America: National Period	3cr	
LAS 281	Special Topics in Latin American Studies	3cr	
LAS 481	Special Topics in Latin American Studies	3cr	
LAS 482	Independent Study	3cr	
LAS 493	Internship (2)	3cr	
PLSC 387	Political Systems: Latin America	3cr	
PLSC 389	Developing Nations	3cr	
SPAN 244	Modern Mexico	3cr	
SPAN 260	Introduction to Hispanic Literature	3cr	
SPAN 340	Hispanic Civilization Through the Nineteenth Century	3cr	
SPAN 344	Twentieth Century Spanish-American Civilization and Culture	3cr	
SPAN 364	Survey of Spanish-American Literature	3cr	
SPAN 420	Modern Hispanic Theater	3cr	
SPAN 421	Modern Hispanic Short Story	3cr	
SPAN 430	Twentieth-Century Spanish-American Prose	3cr	
SPAN 431	Spanish-American Poetry	3cr	
Category B: Substantially Latin America-Focused			0-6
ECON 339	Economic Development I	3cr	
ECON 345	International Trade	3cr	
ECON 346	International Finance	3cr	
ECON 350	Comparative Economic Systems	3cr	
ENGL/FNLG 396	The Literature of Emerging Nations	3cr	

MGMT/ MKTG 350	International Business	3cr
MGMT 351	International Management	3cr
MGMT 452	Comparative Management	3cr
MGMT 454	International Competitiveness	3cr
MKTG 430	International Marketing	3cr
PLSC 285	Comparative Government II: Non-Western Political Systems	3cr

- (1) The topic of [ANTH 460](#), [ENGL 344](#), and [GEOG 484](#) varies (check with instructor). When concerned with Latin America or the Hispanic experience in the United States, these courses will count towards the Latin American Studies Minor.
- (2) With the program coordinator's approval, 3cr of an internship ([LAS 493](#)) may be counted towards the Latin American Studies Minor.

For further information on this minor, contact the College of Humanities and Social Sciences, 201 McElhaney Hall, 724-357-2280.

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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.

Minor–Pan-African Studies

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Required Courses:		6
HIST 365	History of Black America Since Emancipation	3cr
PNAF 131	Introduction to Pan-African Studies	3cr
Controlled Electives: Four courses from the following:		12
ANTH/SOC 271	Cultural Area Studies: Africa	3cr
ARHI 418	African Art	3cr
COMM 380	The History of African Americans in Film	3cr
ECON 339	Economic Development I	3cr
ENGL 348	African-American Literature	3cr
GEOG 255	Geography of Africa	3cr
HIST 355	African History I: Antiquity to 1600	3cr
HIST 356	African History II: 1600 to Present	3cr
HIST 366	African-American Women	3cr
MUSC 300	Black Music in America and Diaspora	3cr
PLSC 382	Political Systems: Africa	3cr
PNAF 281	Special Topics in Pan-African Studies	3cr
PNAF 481	Special Topics in Pan-African Studies	3cr
PNAF 482	Independent Study	3cr
PNAF 493	Pan-African Studies Internship	3cr
RLST 360	African Religions	3cr

For further information on this minor, contact the College of Humanities and Social Sciences, 201 McElhaney Hall, 724-357-2280.

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Women's Studies Program

Director: **Fauzia Ahmed**

Website: www.iup.edu/womens

The Women's Studies minor is designed to examine the status and experiences of women from a multidisciplinary perspective. The courses use a variety of methods and disciplinary perspectives to explore the impact of gender on the experiences of the individual. Women's contributions to a variety of fields and the historical, literary, and cultural images of women are also addressed. Students are encouraged to challenge traditional theories and research regarding women and to develop a critical, multidisciplinary, multicultural, and gendered view of the world. Courses taught within the minor typically involve the students through innovative, experiential classroom exercises and written assignments. Courses in Women's Studies address social equity issues and encourage students to perceive themselves as capable of transforming society.

A minor in Women's Studies indicates to the prospective employer an awareness of and sensitivity to gender issues. This awareness may be needed in the following positions: personnel specialist, affirmative action officer, crisis intervention specialist, family and youth services provider, legal advocate. A minor in Women's Studies can contribute to success in a variety of fields including communication, counseling, criminology, education, health, journalism, law, politics, psychology, and applied sociology.

Students interested in attending graduate school will also find a minor in Women's Studies valuable for a variety of areas, including English, history, studies in the social sciences, and law school.

Minor–Women's Studies		15
Required Courses:		3
WMST 200	Introduction to Women's Studies	3cr
Students receive approval for a specified course of study from the following: (1)		12
ANTH 350	Anthropology of Women	3cr
CRIM 450	Women and Crime	3cr
ENGL 225	Introduction to Literature by Women	3cr
ENGL 336	Language, Gender, and Society	3cr
ENGL 385	Advanced Women's Literature	3cr
FRNC 301	Portraits of Women in the French Novel	3cr
HIST 366	African-American Women	3cr
HIST 369	Women in America	3cr
HIST 390	History of Women–World Cultures	3cr
JRNL 250	Women and the Press	3cr
PHIL 232	Philosophical Perspectives on Love, Marriage, and Divorce	3cr
PSYC 379	Psychology of Human Sexuality	3cr
PSYC 411	Psychology of Women	3cr
RLST 245	Women and Religion	3cr
RLST 345	Women in the Bible	3cr
RLST 485	Selected Topics in Feminist Studies of Religion	3cr
SOC 251	Sociology of Human Sexuality	3cr
SOC 363	Sociology of Gender	3cr
SOC 427	Spouse Abuse	3cr
WMST 430	Gender, Sexuality, and Sport: A Feminist Perspective	3cr
WMST 482	Independent Study	var-1-3cr
XXXX 481	Special Topics (2) (offered within department)	var-1-3cr
XXXX 493	Internship (3)	var-1-3cr
<p>(1) Students receive approval for a specified course of study from the above list of courses and, with permission from the director of Women's Studies, from selected women's studies courses that have been recently developed. Please see webpage www.iup.edu/womens for current information.</p> <p>(2) Examples of XXXX 481 offered: ART 481 Maidens to Madonna, BTED 481 Women and Business, and WMST 481 Special Topics in Women's Studies.</p> <p>(3) Internships (up to 3cr) may be counted towards the minor.</p>		

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The College of Natural Sciences and Mathematics

Interim Dean: Gerald M. Buriok

Assistant Dean: Aleksandra B. Kaniasty

Dean's Associate: Allan T. Andrew

Website: www.iup.edu/natsciandmath

[Department of Biology](#)

[Biochemistry Program](#)

[Department of Chemistry](#)

[Department of Computer Science](#)

[Department of Geoscience](#)

[Department of Mathematics](#)

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[Preprofessional Programs](#)

[The Foreign Language Requirement](#)

One of the characteristics of the twenty-first 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 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.

Degrees Offered

- Applied Mathematics
- Applied Physics (Tracks available: Electro-Optics, Nanomanufacturing Technology)
- Biochemistry
- Biology (Tracks available: Cell and Molecular, Honors, Pre-Medical, Pre-Veterinary)
- Biology Education
- Chemistry (Pre-Medical track available)
- Chemistry Education
- Computer Science (Tracks available: Applied, Information Assurance, Languages and Systems)
- Earth and Space Science Education
- Economics/Mathematics
- Electro-Optics (Associate in Applied Science and Associate in Science)
- Environmental Health Science
- General Science Education
- Geology (Tracks available: Geology, Environmental)
- Mathematics

- Mathematics Education
- Natural Science (Tracks available: Pre-Chiropractic, Pre-Dentistry, Pre-Engineering, Pre-Optometry, Pre-Pharmacy, Pre-Physical Therapy, Pre-Podiatry, and Science for Disaster Response)
- Physics
- Physics Education
- Psychology

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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, Mathematics, and Natural Science. The Bachelor of Arts degree is awarded by the Department of Psychology. An Associate of Applied Science and an Associate in Science are awarded in Electro-Optics.

Several departments in the college sponsor Master of Arts or Master of Science degrees. The Department of Psychology offers the Doctor of Clinical Psychology degree. Information on these programs can be obtained from the School of Graduate Studies and Research.

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 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.

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.

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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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.

- **Chiropractic** (See Natural Science): The New York Chiropractic College and Logan Chiropractic College programs are designed to accelerate the professional training of IUP students in the field of chiropractic medicine.
- **Dentistry** (see Natural Science): The Temple University School of Dentistry program is designed to accelerate the professional training of IUP students in the field of dentistry.
- **Engineering–Drexel University** (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. Students completing this program will receive a bachelor's degree in engineering from Drexel University.
- **Engineering–University of Pittsburgh** (See Natural Science)
- **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. Contact Dr. Allan Andrew for information.
- **Forestry and Environmental Studies** (See Department of Biology): 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.
- **Lake Erie College of Osteopathic Medicine** (See Department of Biology): Lake Erie College of Osteopathic Medicine and IUP have a cooperative “3+4” program. Students will be awarded a Bachelor of Science degree in Biology from IUP upon successful completion of the first-year curriculum at Lake Erie College of Osteopathic Medicine and of the undergraduate requirements at IUP. Contact Dr. Allan Andrew for specific information.
- **Marine Science Consortium** (See Department of Biology): 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.
- **Optometry** (See Natural Science): The Pennsylvania College of Optometry program accelerates the professional training of IUP students in the field of optometry.
- **Pharmacy** (see Natural Science): The Shenandoah University School of Pharmacy or Lake Erie College of Osteopathic Medicine School of Pharmacy programs are designed to accelerate the professional training of IUP students in the field of pharmacy.
- **Physical Therapy** (see Natural Science): The Gannon University School of Physical Therapy program is designed to enhance the professional training of IUP students in the field of physical therapy.
- **Podiatry** (See Natural Science): The Temple University School of Podiatric Medicine program accelerates the professional training of IUP students in the field of podiatry.
- **Primary Care Partnership**: The program with the 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.
- **Primary Care Scholars Program**: The Philadelphia College of Osteopathic Medicine (PCOM) has established the Primary Care Scholars Program with six 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.



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The School of Continuing Education

Associate Provost and Dean: Nicholas E. Kolb
Assistant Dean: George E. Rogers

Website: www.iup.edu/continuing-ed

Credit Programs

General Studies

- Associate of Arts
- Bachelor of Science

Center for Career and Technical Personnel Preparation

Vocational-Technical Education

- Bachelor of Science in Education

Certificate

- Vocational-Technical Education
- Secondary School Cooperative Education Teacher/Coordinator

Conferences and Noncredit Programs

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, and the Center for Career and Technical Personnel Preparation. 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.

Credit Programs

George E. Rogers, Assistant Dean

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.

Associate of Arts–General Studies

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 bachelor's degree programs plus 10 credits 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 credits may be transferred into this degree program from other colleges.

Full-time students admitted to the Associate of Arts degree program through the Admissions Office will be advised by personnel in the Learning Enhancement Center during their freshman year at IUP.

Associate of Arts–General Studies

Liberal Studies: As outlined in Liberal Studies section with the following specifications:	50
Fine Arts	3cr
Health and Wellness/ROTC	3cr
Humanities	9cr
Learning Skills	10cr
Natural Science	7cr
Social Science	9cr
Controlled Liberal Studies Electives	9cr
Free Electives:	10
Total Degree Requirements:	60

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Bachelor of Science–General Studies

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 individually 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 45cr 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 assistant dean of the School of Continuing Education.

Bachelor of Science–General Studies

Liberal Studies: As outlined in Liberal Studies section	53
General Area of Study: (1, 2)	24
Choose at least 6cr from three of the four areas listed below. At least 12cr must be 300-level or above. Courses should relate to theme developed in Special Interest Area.	
<i>Arts, Letters, and Culture Area:</i> Art, Communications Media, English, French, German, Journalism, Music, Philosophy, Religious Studies, Spanish, Theater	
<i>Human Behavior and Development Area:</i> Anthropology, Education, Health, Family and Consumer Sciences, Psychology, Sociology	
<i>Science, Mathematics, and Technology Area:</i> Biology, Chemistry, Computer Science, Geoscience, Mathematics, Physics, and relevant courses in education	
<i>Social and Political Systems Area:</i> Economics, Education, Geography and Regional Planning, History, Industrial and Labor Relations, Political Science	
Special Interest Area: (3)	21
With approval of advisor, student may select, from any department listed above, courses which focus on a particular need or interest. At least 12cr 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.	

Free Electives: At least 6cr must be 300-level or above	22
Total Degree Requirements:	120
<p>(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.</p> <p>(2) No more than 30cr taken in any one department will count toward graduation.</p> <p>(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 2.0 GPA in the Special Interest Area.</p>	

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Part-time Studies Program (Non-degree)

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. See the Admissions section of this catalog for application requirements.

A student in the Part-time Studies Program is limited to a semester enrollment of no more than 11 credits and must apply for formal admission to degree candidacy to a degree program before 30 IUP credits 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 GED	15 IUP credits	2.0 GPA
Veteran (DD-214 required)	9 IUP credits	2.0 GPA
Transfer (with 12 or more credits)	9 IUP credits	2.0 GPA
Transfer (with 11 or less credits)	15 IUP credits	2.0 GPA

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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. Please see the Admissions section of this catalog for application information.

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 "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 credits per semester. For further information, contact us at 724-357-2292.

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Center for Career and Technical Personnel Preparation

Vocational-Technical Professional Studies

Director:	Donald C. Gamble
Chairperson:	Karen S. Rivosecchi
Faculty:	Boyd, Catlos, Debow, Dolecki, Livingston, Monaco, Spewock, Sylves

Website: www.iup.edu/voced

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 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 credits 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 Career and Technical Personnel Preparation requires completion of the following credits:

Bachelor of Science in Education	120cr
Cooperative Education Teacher/Coordinator Certificate	15cr
Vocational Technical Education Certificate	60-62cr

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Bachelor of Science in Education–Vocational-Technical Education

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: 3cr, MATH 101 or higher-level MATH Social Science: PSYC 101 Liberal Studies Electives: 6cr, no courses with VOED prefix	51
College:	6
Professional Educational Sequence:	
COMM 103 <i>or</i> Digital Instructional Technology <i>or</i> FDED 102 American Education in Theory and Practice	3cr
EDSP 102 Educational Psychology	3cr
Major:	30
Required Courses:	
VOED 100 Preparation of the Vocational Professional I	15cr
VOED 400 Preparation of the Vocational Professional II	15cr
Other Requirements:	27
Vocational Requirements:	
ENGL 310 Public Speaking	3cr
VOED 450 Technical Preparation of the Vocational Professional	24cr
Free Electives:	6
Total Degree Requirements:	120

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Certificate–Vocational-Technical Education

Liberal Studies: As follows: English: ENGL 101 Fine Arts: one course from list Humanities: one course from list Mathematics: MATH 101 or higher-level MATH course Natural Science: one course, lab or non-lab Social Science: PSYC 101 Liberal Studies Electives: one course, no course with VOED prefix	21-23
College:	6

Professional Educational Sequence:			
EDSP 102	Educational Psychology	3cr	
FDED 102 <i>or</i> COMM 103	American Education in Theory and Practice <i>or</i> Digital Instructional Technology	3cr	
Major:			33
Required Courses:			
ENGL 310	Public Speaking	3cr	
VOED 100	Preparation of the Vocational Professional I	15cr	
VOED 400	Preparation of the Vocational Professional II	15cr	
Total Certification Requirements:			60-62

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Certificate as Secondary School Cooperative Education Teacher/Coordinator

Existing Pennsylvania teaching certificate (Vocational Instructional I or II certificate or Instructional I or II certificate)

Required Courses:			
VOED 402	Special Topics in Vocational Pedagogical Preparation	6-15cr	
Total Degree Requirements:			15 (1)
(1) Students may be exempt from some credit requirements based upon proof of previous coursework and demonstration of specific competencies.			

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Conferences and Noncredit Programs

George E. Rogers, Assistant Dean

The School of Continuing Education offers a wide variety of noncredit programs which meet business, industry, and community needs in the areas of workforce training and development, professional development, personal enrichment, and public service.

Community-University Studies

Noncredit courses and workshops are offered in Indiana throughout the year. Focusing on enrichment and personal growth, topics include creative leisure, self-improvement, health, fitness, dance, languages, and outdoor pursuits. There are no grades or exams. Instructors are knowledgeable and enthusiastic about introducing others to their areas of expertise. In addition, the Academy of Living and Learning is a gathering of people eager to extend their education in their retirement years by learning in a nonthreatening atmosphere. It is a member-driven enrichment program for all mature learners throughout Indiana County. The February Great Decisions program is part of the academy.

Special Programs

The School of Continuing Education sponsors week-long workshops for middle-school and high-school age students each summer. Recent examples include the CSI Workshop, the Naturalist, and the Guitar Workshop. Professional development workshops are also provided year-round for adults. The KOSH (Keystone Occupational Safety and Health) Center provides OSHA-certified training throughout the commonwealth and can provide customized training for organizations.

Conferences

The professional staff of the Office of Conferences assists in planning and implementing experiences for a variety of professional, subject matter-related, and general interest groups. Assistance in budgeting, marketing, designing of brochures, on-site registration, and evaluation are examples of services available to our clients. Coordination of off-campus events is also a service available to conference planners.

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Course Descriptions

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A	B	C
Accounting Advising and Testing Anthropology Applied Music Art (Studio) Art Education Art History Asian Studies	Biochemistry Biology Business and Technology Education Business Law Business Technology Support and Training	Chemistry Child and Family Studies Clinical Laboratory Science College of Humanities and Social Sciences Communications Media Computer Science Consumer Affairs Counseling and Student Development Counselor Education Criminology Critical Languages

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D	E	F
Dance Developmental Studies Distributive Education	Early Childhood Education Economics Education Education of Deaf and Hard-of-Hearing Persons Education of Exceptional Persons Educational and School Psychology Electro-Optics Elementary Education English Environmental Health Science	Family and Consumer Sciences Education Fashion Merchandising Finance Fine Arts Food and Nutrition Foreign Language/Study Abroad and Comparative Literature Foundations of Education French

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G	H	I
Geography Geoscience German Gerontology	Health and Physical Education History Honors Business Honors College Hospitality Management College of Humanities and Social Sciences	Industrial and Labor Relations Information Management Interior Design International Studies Italian

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J	K	L
Journalism		Latin American Studies Liberal Studies Library

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M	N	O
Management Marine Science Marketing Mathematics Military Science Music Music History	Nanomanufacturing Technology Nuclear Medicine Technology Nursing	

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P	Q	R
Pan-African Studies Philosophy Physics Political Science Psychology	Quantitative/Business	Real Estate Regional Planning Religious Studies Respiratory Care

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S	T	U
Safety Sciences Science Science for Disaster Response Social Work Sociology Spanish Speech Pathology and Audiology Study Abroad and Comparative Literature (Foreign Lanaguage)	Theater	Universitywide Courses

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V	W	X	Y	Z
Vocational Education	Women's Studies			

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A	B	C
<p>AACSB International Accreditation Academic Affairs Division Academic Good Standing Academic Integrity Policy Academic Policies College of Education and Educational Technology Eberly College of Business and Information Technology Academic Standards Policy Accounting Department Accounting Specialization, Associate of Arts Accreditation Act 101 Program Activity Fee, Student Adjunct Faculty Administration and Finance Division Administrative Officers Admissions and Registration Admissions Policy, Undergraduate Adult and Community Education Department Advanced Placement Examination Advising and Testing Center Advisory Program Affirmative Action African American Cultural Center Allied Health Professions Programs Alumni American Language Institute Americans with Disabilities Act Anthropology Department Anticipated Class Absence Policy Application Fee Applied Media and Simulation Games Center Applied Social Research Track/Minor Applied Statistics Minor Aquatic Track, Physical Education and Sport Aquatics School Archaeology Track, Anthropology Major Art Department Asian Studies Minor</p>	<p>Bad Check Charge Billing and Payments Biochemistry Program Biology Department Board of Governors, Pennsylvania State System of Higher Education Buildings and Grounds Business Administration Minor Business Advisory Council Business and Information Technology, Eberly College of Business Associate Degree Programs Business Education Business Technology Support Major and Minor</p>	<p>Calendar Cancelled Semester Policy Cell and Molecular Biology Track Career and Technical Personnel Preparation, Center for Career Exploration/Undecided Majors Career Services Cell and Molecular Biology Track Centers and Institutes, IUP Centers and Clinics, College of Education and Educational Technology Certification, Teacher Chancellor, Pennsylvania State System of Higher Education Change of Major Policies Cheating (See Academic Integrity Policy) Chemistry Department Child and Family Studies Major and Minor Child Study Center Chiropractic, Pre-Civility Statement Class Attendance Class Disruptions Classification of Students Clinical Laboratory Science Administrative Fee Clinical Laboratory Science Major College Board Examinations College Level Examination Program (CLEP) College of Business Student Advisory Council Communications Media Department Computer and Information Technology Specialization (CIT), Associate of Arts Computer Science Department Computer Software Policy Computing Resources Policy, University Computing Services Conferences and Noncredit Programs Continuing Education, School of Cooperative Education Council of Trustees, IUP Counseling and Psychological Services, Center for</p>

Associate in Applied Science-Electro-Optics Associate in Science-Electro-Optics Associate of Arts Degree-Business Associate of Arts Degree-General Studies Athletic Grants-in-Aid Athletic Training Track, Physical Education and Sport Athletics Attendance Policy, Undergraduate Course Audio Studio Audit Fee Audit Policy	Counseling Department Counselor and Training Services, Center for Course Descriptions Course Repeat Policy Credit/Exemption Examinations Credit Programs, School of Continuing Education Credits and Cumulative Quality-Point Average Requirement Criminal Justice Training Center Criminology Department Critical Languages Program Culinary Arts, Department of Cultural Experiences Abroad
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D	E	F
Damage Fee Dance Arts Track, Interdisciplinary Fine Arts Major Dance Minor Deaf and Hard-of-Hearing Persons Major Education of Deaf Studies Minor Dean's List Degree Requirements, Completion of Degrees Offered at IUP, Undergraduate Delinquent Accounts Dentistry, Pre- Developmental Studies Department D/F Repeat Policy Dietetics Track, Nutrition Major Digital Media Institute Dining Plan Fee Dining Services Directory Directory Information, Student Rights Disability Services Major Disability Services Track, Sociology of Disability Support Services Dismissal Driver Education Drop/Add Dual Baccalaureate Degrees Dual Certification Duke Cooperative Program in Forestry and Environmental Studies	Early Childhood Education/PreK-Grade 6 Major Earth and Space Science Education Eberly College of Business and Information Technology Economic Developer Track, Regional Planning Economic Geographer Track, Geography Economics Department Education and Educational Technology, College of Education and Educational Technology Honors Program Educational and Program Evaluation, Center for Educational and School Psychology Department Educational Assistance Program (EAP), Pennsylvania National Guard Educational Technology Minor Electro-Optics Programs Elementary Education Major Eligibility and Application for Graduation Emeriti Employment, Student Engineering, Pre- English Department English Language Programs for International Students and Visitors Entrepreneurship and Small Business Management Track Entrepreneurship Minor Environmental Geographer Track, Geography and Regional Planning Environmental Health Science Environmental Track, Geology Environmental Planner Track, Geography and Regional Planning Examination for Credit Fee Exceptional Persons Major and Minor, Education of Exemption Examinations Exercise Science Track, Physical Education and Sport Experiential Education Office	Faculty Family and Consumer Sciences Education Major Family Business, Center for Family Educational Rights and Privacy Act Family Medicine Fashion Merchandising Major Federal Supplemental Educational Opportunity Grant Federal Work-Study Program Fees FERPA Final Examination Policies Finance and Legal Studies Department Finances Financial Aid Financial Aid Sufficient Progress Policy Financial Delinquency Policy Fine Arts, College of Food and Nutrition Department Foreign Languages and International Studies for Elementary Education (FLISET) Foreign Study Programs Forestry and Environmental Studies Cooperative Program Foundations of Education Department French and German Department French Majors Fresh Start Policy Freshman Applications Freshman Orientation Freshman Residency Requirement Freshman Year, Academic Life Full-time Student Classification

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G	H	I
<p>General Science Education General Studies–Associate of Arts General Studies–Bachelor of Science Geography and Regional Planning Department Geographic Information Systems and Cartographer Track, Geography/Regional Planning Geology Geoscience Department German Majors Gerontology Certificate Program Government and Public Service Major Government Contract Assistance Program GPA, Determining Grade Appeal Policy Grade Change Policy Grades and Quality Points Grading Policies Graduation, Eligibility and Application Graduation Honors Graduation, Requirements for Grants Graphics/Multimedia Lab</p>	<p>Harrisburg Internship Semester (T.H.I.S.) Health and Human Services, College of Health and Physical Education Department Health Insurance, Student Health Services Health Services Fee High School Students, Visiting Student Program Highway Safety Center History and Literature Track, Music History Department History of the University History Track and Minor, Art Honors, Academic Honors College, Robert E. Cook Honors Program Tracks Anthropology Biology Eberly College of Business and Information Technology Economics Education and Educational Technology English French Geography History Philosophy Psychology Regional Planning Religious Studies Sociology Spanish Hospitality Management Housing Fee Housing and Dining Information Human Development and Environmental Studies Human Resources Management Major Human Services Track, Sociology Major Humanities and Social Sciences, College of</p>	<p>Immunization Requirements Inclement Weather Policy Incomplete Policy Indiana, the County and the Town Individual Course Withdrawal Policy Industrial and Labor Relations Department Information Assurance Track and Minor Installment Payment Charge Institutional Advancement Division Institutional Fees Instructional Fee Interdisciplinary Fine Arts Major Interior Design Major International Affairs, Office of International Business Major International Exchange and Study Abroad Programs International Management, School of International Student Exchange Program International Student Orientation Fee International Student Teaching Opportunities International Studies/Political Science Major International Trade, French International Trade, German International Trade, Spanish Internships/Cooperative Education Intramurals</p>

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J	L	M
<p>Jefferson Medical College-IUP Physician Shortage Area Program Journalism Department Junior Standing, Eberly College of Business and Information Technology Junior Status Approval, Sophomore Screening for Junior-Year Review, College of Humanities and Social Sciences</p>	<p>Lake Erie College of Osteopathic Medicine Late Grade Policy Languages and Systems Track, Computer Science Latin American Studies Minor Legal Studies Department, Finance and Liberal Studies Libraries Licensed Practical Nurse Track, Nursing-B.S. Literacy Center Loans, Educational</p>	<p>Major and Career Exploration Center Major Changes Management Department Management Information Systems and Decision Sciences Department Management Services Group Marine Science Consortium Marketing Department Mathematics Department Medical Track/Biology, Pre-</p>

	Medical Track/Chemistry, Pre- Midterm Grade Report Policy Military Science Department Military Service, IUP Policy for Enrolled Students Called to Active Mission Statement (A University Education) Music Department Musical Theater Track, Interdisciplinary Fine Arts Major
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N	O	P
Nanomanufacturing Technology Track, Applied Physics National Student Exchange Program Fee Natural Science Program Natural Sciences and Mathematics, College of New Student Orientation Night Exam Policy Non-Native Students: English Language Requirements Normal Credit Loads Northpointe Regional Campus Nuclear Medicine Technology Major Nursing and Allied Health Professions Department Nutrition Majors/Minor	Off-Campus Instructional Fee Operations Management Track Optometry, Pre- Orientation, New Student Out-of-State Tuition	Pan-African Studies Minor Parent Loans for Undergraduate Students (PLUS) Parking Part-time Study Pass-Fail Policy Pechan Health Center Pell Grant, Federal Pennsylvania National Guard Educational Assistance Program Pennsylvania State Grant (PHEAA) Performance, Music Perkins Loan, Federal Pharmacy, Pre- PHEAA State Work-Study Philosophy Department Physical Education and Sport Major Physical Therapy, Pre- Physics Department PLUS Loan, Federal Podiatry, Pre- Political Science Department Portfolio Assessment Fee Portfolio Assistance Center Postbaccalaureate Studies Pre-Law Criminology Track Pre-Law Economics Track Pre-Law English Track Pre-Law History Track Pre-Law Philosophy Track Pre-Law Political Science Track President's Cabinet President's Message Primary Care Partnership Primary Care Scholars Program Prior Learning Assessment Probation Professional Studies in Education Department Program Changes Provost's Scholar Psychological Science Minor Psychology Department Publications (Student) Punxsutawney Regional Campus Pymatuning Laboratory of Ecology

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Q/R	S	T
<p>Quality Points Radio Station Readmission Policy Refund Policy Regional Campuses Regional Planning Majors Registered Nurse Track, Nursing Registration Fee Religious Studies Department Reserve Officers' Training Corps Residence Hall Application Residence Hall Association Residence Hall Fee Residence Life Residency, In-State/Out-of-State Residency Requirement for Graduation Resident Assistants Respiratory Care Major Robert E. Cook Honors College ROTC ROTC Scholarships Rural Gifted Education, Center for</p>	<p>Safety Sciences Department Schedule Changes (Drop/Add) Scholarships Scholastic Aptitude Test (SAT) Science Education/General Science for Disaster Response Track/Natural Science Second Baccalaureate Degree Requirements Secondary School Cooperative Education Teacher/Coordinator Certificate Semester Course Syllabi Policy Service Learning Work Study Program Sexual Harassment, Policy Small Business Development Center Small Business Incubator, Indiana County Small Business Institute Social Science Education Anthropology Concentration Sociology Concentration Social Studies Education Economics Track Geography Track History Track Sociology Department Software Policy Sophomore Screening <i>Source, The</i> Spanish Department Spanish for Elementary Education Special Education and Clinical Services Department Special Fees Speech and Hearing Clinic Speech-Language Pathology and Audiology Major Speech-Language Pathology Video Observation Lab Sport Administration Track, Physical Education and Sport Sports, Varsity and Intramural Stafford Loan, Federal State Grants Student Activity Fee Student Affairs Division Student Affairs in Higher Education Department Student and Alumni Services Office, Eberly College of Business and Information Technology Student Conduct Office Student Cooperative Association Student Employment Student Government Association Student Life, Center for Student Programs and Services</p>	<p>Teacher Certification Fee Teacher Education and Certification Teacher Placement Fee Technology Fee Technology Policies Technology Services Center (TSC) Technology Support and Training Department Television Station Testing Fee Theater and Dance Department Theory and Composition Track, Music Three-Step Process for Teacher Education Timely Completion of Degree Requirements Title II, Federal Higher Education Act Title IV Satisfactory Academic Progress Policy Total University Withdrawal Policy Town Manager Track, Regional Planning Transcript Information and Fees Transfer Admissions Transfer Coursework, Pre-Approval for Tuition</p>

	Student Rights/Directory Information Student Teaching Student Technology Services Studio Major Study Abroad Programs Sufficient Progress Summer Sessions Summer Sessions Fees Syllabus Policy	
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U	V	W/Z
Undergraduate Catalog Applicability Timeframe University, The University Governance University Libraries University Loan Fund University Organization University Professors Emerit Urban Track, Elementary Education	Veterans Affairs Veterans Benefits Veterinary Track/Biology, Pre Visiting High School Students Program Vocational Rehabilitation Assistance Office Vocational-Technical Professional Studies	Weather Policy, Inclement Wireless Communications Policy Withdrawal Policies Women's Studies Program Work-Study Award, Federal Workforce and Academic Development Writing Across the Curriculum Requirements Writing-Intensive Courses Zimbabwe (University of) Department of Biological Sciences Exchange Program

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About the On-Line Catalog

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.

This on-line catalog is an electronic representation of the university's published catalog, and as such, reflects exactly the same information as the counterpart paper version.



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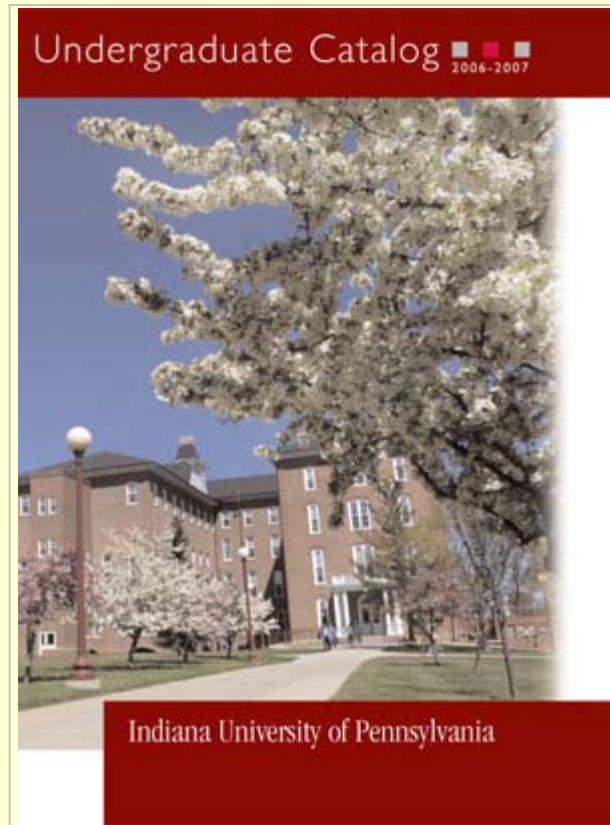
The Colleges

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Correspondence regarding this site should be sent to the [Registrar's Office](#) at registrars-office@iup.edu. Please see [IUP's statement](#) regarding pages that do not officially represent the university.

University Calendar

For the latest academic calendar information, please visit the website www.iup.edu/registrar/calendars.

Fall Semester, 2006

Classes begin	August 28
Labor Day Break (no classes)	September 4
Fall recess	October 23-24
Thanksgiving recess	November 22-26
Classes resume (8:00 a.m.)	November 27
Classes end	December 11
Final exams	December 12-16
December Commencement	December 17

Spring Semester, 2007

Classes begin	January 17
Spring vacation	March 12-18
Classes resume (8:00 a.m.)	March 19
Classes end	May 1
Reading Day	May 2
Final exams	May 3-9
May Commencement	May 12

Summer Sessions, 2007

To be announced

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Resources

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-

Computing Services

All students have access to an extensive set of web-based services, including class registration, schedule planning, and records management. Students are also provided with an e-mail account and a network account, which afford personal disk space for e-mail, projects, and web pages. Technical support is available at the Student Computing Help Desk via telephone at 724-357-2198, email at student-helpdesk@iup.edu, or the website www.iup.edu/ats/sts.

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.

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 are served by the Technology Services Center.

The university's computing infrastructure consists of Windows-based clients and servers and Unix-based servers. Access to the network is provided from every campus building, including the residence halls, utilizing a fiberoptic backbone. Wireless network access is also provided from various locations across campus. Discounted dial-up access is available to students living off campus as well as faculty and staff via an arrangement with a local Internet service provider. IUP is connected to the Internet and Internet 2 via SSHenet.

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 IUP Libraries

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 Orendorff Music Library which is located in Cogswell Hall, and the regional campus libraries in Northpointe and Punxsutawney are the other components of the IUP Library system. Fifteen library faculty members, nineteen support staff members, and over 150 students are employed in the Libraries division of the university.

The book collection contains 863,363 volumes, there are 1,784 periodical subscriptions, 2.4 million items of microforms, over 141,104 bound periodicals, and over 37,568 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. The IUP Libraries are active members of the State System's Keystone Library Network, and through the KLN, the university has a shared on-line catalog and receives many electronic databases. The Libraries are also charter members of the Pennsylvania Academic Library Consortium Initiative and receive direct loans from the state's major university and college libraries.

The central library is open 104 hours a week during regular terms. The Orendorff Music Library, located in Cogswell Hall, contains approximately 11,000 books, 22,000 scores, 10,000 recordings and 2,900 CDs. Sound recordings circulate only to faculty members, but listening stations are available for use by all patrons.

The Northpointe Regional Campus Library has more than 5,000 volumes, and the Punxsutawney Campus Library has over 8,300 volumes and recordings of music, poetry and drama.

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IUP Centers and Institutes

The School of Graduate Studies and Research provides coordinating and support functions for campus-based centers and institutes through the Office of the Assistant Dean for Research. Centers and institutes serve a variety of functions. Each center or institute is unique in its focus and is created to meet a specifically identified need. Centers and institutes provide an opportunity for faculty members to utilize their expertise through consultation, technical assistance, and research-related activities. Centers and 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 and 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.

- Administration and Leadership Studies Research and Training Center
- American Language Institute
- Applied Media and Simulation Games Center
- Applied Research Lab
- Archaeological Services
- Biotechnology Research Institute
- Center for Applied Psychology
- Center for Career and Technical Personnel Preparation
- Center for Counselor Training and Services
- Center for E-Commerce and Technology Support
- Center for Economic Education
- Center for Educational and Program Evaluation
- Center for Family Business
- Center for Film Studies
- Center for Health Promotion and Cardiac Disease Prevention
- Center for Middle Eastern Studies
- Center for Research in Criminology
- Center for Rural Gifted Education
- Center for Statistics Education in Pennsylvania at IUP
- Center for Teaching Excellence
- Center for the Study of Religion in Pennsylvania
- Center for Turning and Furniture Design
- Center for Videoconferencing
- Child Study Center
- Community Nutrition Services
- Criminal Justice Training Institute
- Digital Media Institute
- Frederick Douglass Institute
- Government Contracting Assistance Program
- Highway Safety Center
- Institute for Information Assurance
- Instructional Design Center
- Intercollegiate Athletic Institute for Sports Camps
- John P. Murtha Institute for Homeland Security
- Literacy Center
- Management Services Group
- Mid-Atlantic Addiction Training Institute
- National Emergency and Disaster Information Center
- National Environmental Education and Training Center
- Pennsylvania Center for the Study of Labor Relations
- Pennsylvania/OSHA Consultation Program
- Small Business Development Center
- Small Business Incubator
- Small Business Institute

Software Development Center

- Speech, Language, and Hearing Clinic
- Teacher Education Center for Science, Mathematics, and Technology
- Translation Services

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Bachelor of Science
Bachelor of Fine Arts
Associate of Arts
Associate in Applied Science
Associate in Science

Bachelor of Arts

- **Anthropology** (Tracks available: Applied Anthropology, Archaeology, General Anthropology, Honors)
- **Art/History Track**
- **Art/Studio**
- **Biology** (Pre-Medicine concentration and Honors Track available)
- **Chemistry** (Pre-Medicine concentration available)
- **Computer Science**
- **Criminology** (Pre-Law Track available)
- **Economics** (Tracks available: Honors and Pre-Law)
- **Economics/Mathematics** (Honors Track available)
- **English** (Tracks available: Honors and Pre-Law)
- **French** (Honors Track available)
- **French for International Trade**
- **Geography** (Tracks available: Economic Geographer, Environmental Geographer, General Geography, GIS and Cartographer, Honors)
- **German**
- **German for International Trade**
- **Government and Public Service**
- **History** (Tracks available: Honors and Pre-Law)
- **Interdisciplinary Fine Arts** (Dance Arts Track available)
- **International Studies/Political Science**
- **Journalism**
- **Music** (Tracks available: General Studies, History and Literature, Theory and Composition)
- **Philosophy** (Tracks available: Honors and Pre-Law)
- **Physics**
- **Political Science** (Pre-Law Track available)
- **Psychology** (Tracks available: Applied Psychology and Honors)
- **Religious Studies** (Honors Track available)
- **Sociology** (Tracks available: Applied Social Research, General Sociology, Human Services, Sociology of Disability Services, Honors)
- **Spanish** (Honors Track available)
- **Spanish for International Trade**
- **Theater**

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Bachelor of Science in Education

- **Art Education**

- **Biology Education** (Honors Track available)
- **Business Education**
- **Chemistry Education**
- **Early Childhood Education/PreK-Grade 6**
- **Earth and Space Science Education**
- **Education of Exceptional Persons**
- **Education of Deaf and Hard-of-Hearing Persons**
- **Elementary Education** (Urban Track available)
- **English Education**
- **Family and Consumer Sciences Education**
- **French Education K-12**
- **General Science Education**
- **Health and Physical Education**
- **Mathematics Education**
- **Music Education**
- **Physics Education**
- **Secondary German Education**
- **Secondary Spanish Education**
- **Social Science Education** (Concentrations available: Anthropology, Sociology)
- **Social Studies Education** (Tracks available: Economics, Geography, History)
- **Speech-Language Pathology and Audiology**
- **Vocational-Technical Education**

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Bachelor of Science

- **Accounting**
- **Applied Mathematics**
- **Applied Physics** (Tracks available: Electro-Optics, Nanomanufacturing)
- **Biochemistry**
- **Biology** (Concentration available: Family Medicine; Tracks available: Cell and Molecular Biology, Pre-Medical, Pre-Veterinary, Honors)
- **Business Technology Support**
- **Chemistry** (Pre-Medicine concentration and Pre-Medical Track available)
- **Child and Family Studies**
- **Clinical Laboratory Science**
- **Communications Media**
- **Computer Science** (Tracks available: Applied Computer Science, Information Assurance, Languages and Systems)
- **Disability Services**
- **Environmental Health Science**
- **Fashion Merchandising**
- **Finance**
- **General Studies**
- **Geology** (Tracks available: Geology, Environmental)
- **Hospitality Management**
- **Human Resources Management**
- **Interior Design**
- **International Business**
- **Management** (Tracks available: General, Entrepreneurship and Small Business, Operations)
- **Management Information Systems**
- **Marketing**
- **Mathematics**
- **Natural Science** (Tracks available: Pre-Chiropractic, Pre-Dentistry, Pre-Engineering, Pre-Optometry, Pre-Pharmacy, Pre-Physical Therapy, Pre-Podiatry, Science for Disaster Response)
- **Nuclear Medicine Technology**
- **Nursing** (Tracks available: Licensed Practical Nurse, Registered Nurse)
- **Nutrition** (Tracks available: Dietetics, Nutrition)
- **Physical Education and Sport** (Tracks available: Aquatic, Athletic Training, Exercise Science, Sport Administration)

- **Physics**
- **Regional Planning** (Tracks available: Economic Developer, Environmental Planner, GIS and Cartographer, Town Manager, Honors)
- **Respiratory Care** (Certified Respiratory Therapist track available)
- **Safety Sciences**

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Bachelor of Fine Arts

- **Music Performance**
 - **Art Studio**
-

Associate of Arts

- **Business** (Specializations available: Accounting, Computer and Information Technology)
 - **General Studies**
-

Associate in Applied Science

- **Electro-Optics**
-

Associate in Science

- **Electro-Optics**

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Institutional Fees*

*The university reserves the right to change its fees without notice. The tuition and fees set forth in this section were those in effect in May, 2006. The fee schedule is subject to change; these figures are to be considered simply as an estimate. The most current fee schedule can be obtained by writing to the IUP Admissions Office, by phoning 724-357-2230, or by visiting the website www.iup.edu/bursar.

Audit Fee	Miscellaneous Costs
Bad Check Charge	National Student Exchange Program Fee
Dining Plan Fee	Off-Campus Instructional Fee
Clinical Laboratory Science Administrative Fee	Registration Fee
Estimated Expenses Per Semester	Residence Hall Fee
Financial Delinquency Policy	Student Activity Fee
Health Services Fee	Technology Fee
Instructional Fee	Testing Fee
International Student Orientation Fee	Tuition

Tuition

The tuition for full-time in-state students is \$2,453 per semester. An additional \$204 per credit will be charged for undergraduate credits scheduled in excess of 18. The tuition for part-time in-state undergraduate students is \$204 per credit. A part-time undergraduate student is one taking 11 or fewer credits. Tuition covers the keeping of student records, use of the library, student welfare, and laboratory facilities. 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 \$6,133 per semester. An additional \$511 per credit will be charged for undergraduate credits in excess of 18. The tuition for part-time out-of-state students is \$511 per credit. 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 questions concerning their domicile should read the official text of the rules, as published in Volume 22, Pennsylvania Code, Section 507.1 through 507.11.

Audit Fee

Full instructional fees are assessed for each course audited, with the exception that persons on Social Security or equivalent retirement benefits are 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.

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Clinical Laboratory Science Administrative Fee

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

Dining Plan Fee

The semester fees for dining plans, effective June, 2006, are:

Plan A/F - 19 meals a week + \$100 in Flex money	\$1,006
Plan B - 14 meals a week	\$855
Plan B/F - 14 meals a week + \$150 in Flex money	\$1,005
Plan C/F - Any 165 meals a semester + \$150 in Flex money	\$1,001
Plan D/F - Any 10 meals a week + \$200 in Flex money	\$1,019
Plan K/F - Any 125 meals a semester + \$200 in Flex money	\$1,015
Plan E/F - Any 75 meals a semester + \$150 in Flex money (Off-campus students only)	\$640

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.

Financial Delinquency Policy

Registration is not complete until a student pays the fee for 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 allowing the student to make further registration transactions, 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 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 Office of the Bursar.

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Health Services Fee

The mandatory student health fee is assessed each semester based upon enrollment status at the university.

- *Health Service Fee A*: \$89.00 (mandatory for full-time undergraduate students). Includes access to clinical care with service fees charged as required. All charges for visits or medications are charged to the student's IUP account. Prescriptions can also be written at the request of the student. The health center does not fill prescriptions ordered by outside medical providers.
- *Health Service Fee B*: \$15.00 (mandatory for all part-time undergraduate students and full-time graduate students). The fee provides access to the self-care cold center (nominal fee for medications), an annual flu vaccination (while supplies last), and for an additional fee, students who pay Fee B may have access to some clinical services. Students who have paid Fee B are also eligible for programs and services offered by Health AWAREness in the Center for Student Life..

Students enrolled in Health Fee B have the option of upgrading their service by paying Fee A, or they may pay a per-visit fee. Spouses of IUP students may enroll in A or B or pay a per-visit fee. The student health fee is waived on a semester-by-semester basis only for students driving more than 25 miles (one-way) for an internship or student teaching or driving more than a 50-mile commute from home. Students attending regional campuses have health fee options and should contact their regional campus director. For further information on the health center, contact Pechan Health Center at 724-357-6475 or health-inquiry@iup.edu.

Instructional Fee

All students are charged an instructional fee to support academic equipment, library resources, maintenance and repair projects, recreational facilities, and the advancement of technologies. The fee is \$245 per semester for full-time students and \$20.40 per credit for part-time students.

International Student Orientation Fee

This fee of \$75 is charged to all international students who register for the IUP orientation program to support associated costs.

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.

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National Student Exchange Program Fee

A one-time \$125 nonrefundable fee is 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.

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Off-Campus Instructional Fee

A 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 to cover operating costs for services and instructional support at off-campus sites. Students enrolled in School of Continuing Education off-campus locations beyond a 25-mile radius are also charged this fee.

Registration Fee

All students will be charged a registration fee of \$32 per semester.

Residence Hall Fee

This academic year's room fees for residence hall students are \$1,575 a semester for a double-occupancy university residence hall room, \$2,239 for a single university residence hall room, and \$2,345 for a super single room. Resident students are required to have a dining plan and can select from five plans (see Dining Fees).

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Student Activity Fee

This fee is collected from all students and administered through the Student Cooperative Association under regulations approved by the Council of Trustees. This fee of \$235 for full-time and \$94 for part-time students per semester covers the cost of student activities in athletics, lectures, entertainment, student publications, etc., and is payable in one sum for the semester. Students attending the regional campuses pay \$228.50 per semester full-time and \$87.50 part-time.

Technology Fee

This fee is assessed for the purpose of acquiring, installing, and maintaining up-to-date and emerging technologies to enhance student learning outcomes. The fee will be assessed to all students per semester as follows:

<i>Pennsylvania Residents:</i>	Full-time	\$62.50	Part-time	\$31*
<i>Nonresident Students:</i>	Full-time	\$94.00	Part-time	\$47*

*The part-time rate for the technology fee is a flat rate per term, regardless of the number of credits taken.

Testing Fee

Each entering freshman must participate in placement testing during the summer immediately preceding the student's matriculation on campus. A fee of \$140 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. Regional campus students participate in a summer one-day diagnostic testing experience with a fee of \$70. 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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Other Costs

In addition to the listed fees, the average student will require \$500-\$1,200 per semester for books, gymnastic costume, student organization dues, personal expenses, etc. These charges are not direct university charges.

Estimated Expenses Per Semester

In-State

Out-of-State

Tuition	\$2,453	\$6,133
Housing	\$1,575	\$1,575
Meals	\$1,006	\$1,006
Student Activity Fee	\$235	\$235
Health Fee	\$89	\$89
Instructional Fee	\$245	\$245
Technology Fee	\$63	\$94
Registration Fee	\$32	\$32
Books and Supplies*	<u>\$ 500</u>	<u>\$ 500</u>
Total	\$6,198	\$9,909

*Cost of books and supplies may vary depending on major and class enrollment. Miscellaneous and travel expenses will be additional.

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Title IV 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.

These 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 at 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 attempted credits at IUP and complete his/her degree within the time frame for degree completion (see Item C of this policy) and be in compliance with the university's Academic Standards policy.

"Attempted credits" is the number of credits for which a student is enrolled at the end of the Drop/Add period.

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 (Fall term through the following Summer term).

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 (Fall term through the following Summer term).

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 if 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 120 credits must complete the requirements for a bachelor's degree without exceeding 160 credits, including transfer credits and IUP registered credits. Note that 160 credits represents 133 percent of the credits required for completion of the degree.

- 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 Appeals Committee 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 Appeals Committee. 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 Appeals Committee 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 Appeals Committee 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. 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. **Cancelled Semester:** All credits for which a grade of "C" or better is earned in that cancelled semester are counted as credits attempted/credits earned.
 11. **Fresh Start Program:** In the case of students readmitted under the Fresh Start Program, past semesters will still be considered when progress is evaluated.

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Office of International Affairs

Director: Michele L. Petrucci

Website: www.iup.edu/international

E-mail: intl-affairs@iup.edu

International Exchange and Study Abroad Programs

International Student Exchange Program

International Student Teaching Opportunities

Cultural Experiences Abroad

The Office of International Affairs (OIA) provides the leadership for IUP's involvement in a wide range of international activities and initiatives. The main purpose of the OIA is to internationalize the campus through exchange, programming, and other initiatives.

The OIA is a central source of information which provides special services for admitted international students, visiting scholars, and international visitors and faculty. The office is also the main resource and support for study abroad programs and international programming. The office provides the following services to students:

- an extensive orientation program for new international students
- advising on immigration matters
- counseling on cultural and personal matters
- preparation and processing of immigration documents
- medical insurance information for international students and exchange/study abroad participants
- financial assistance to qualified students through the partial tuition waiver
- a predeparture orientation program for exchange and study abroad participants
- a reentry program for participants returning from exchange or study abroad
- multicultural programming for the campus and Indiana community

In addition, this office supports Culturelinks, a volunteer program which connects students to the larger community. Culturelinks provides an opportunity for international students to share their perspectives and cultural traditions with others in the university and in the community. The office also sponsors Coffee Hours which are open to all members of the community. Trips for international and exchange students to New York City and Pittsburgh are arranged and partially funded through OIA.

International Exchange and Study Abroad Programs

Through the OIA, IUP students may broaden their education by taking part in study abroad programs.

The office houses an exchange/study abroad resource library. Students seeking information on academic programs offered by educational institutions in this country and abroad are welcome to read the materials available in the office. Qualified students planning to travel or study abroad may also purchase the International Student Identity Card—good for discounts, identification, and insurance—in the Office of International Affairs.

More information about each of the following programs and programs instituted after the date of this publication can be obtained in the Office of International Affairs, Wallace Annex, 724-357-2295, or at the website www.iup.edu/international.

Australi and New Zealand	Europe (ETEN)	Japan	Slovak Republic
Bangladesh	Finland	Kenya	Slovenia
Brazil	France	Macau	Spain

China	Germany	Malaysia	Sweden
Columbia	Greece	Mexico	Taiwan
Costa Rica	India	Norway	Turkey
Croatia	Ireland	Poland	
England	Italy	Russian Federation	

Australia and New Zealand (AustraLearn and ISEP). With universities located throughout Australia and New Zealand, AustraLearn and ISEP offer IUP students a wide range of choices in locale, course offerings, and size. Semester and academic-year opportunities are available, with the fall semester running from July to November and the spring semester running from February to June.

Bangladesh, Dhaka. Students studying business, computer science, economics, environmental studies, sociology, anthropology, and public administration have the opportunity to study for a semester or an academic year at North South University in Dhaka. The language of instruction is English.

Brazil, São Carlos. Students studying in the Eberly College of Business and Information Technology have the opportunity to study in Brazil for one semester or an academic year. The language of instruction is Portuguese.

Brazil, São Paulo. Students studying in the Eberly College of Business and Information Technology have the opportunity to study in Brazil for one semester or an academic year. The language of instruction is Portuguese.

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China. Three exchanges in Beijing, Suzhou, and Shanghai are sponsored through the Professional Studies in Education Department. Interested students can attend Shanghai Teachers University, Beijing Capital Normal University, or Soochow University and experience Chinese culture and language for a semester or an academic year. The language of instruction is Chinese.

China, Chengdu. Students studying in the Eberly College of Business and Information Technology have the opportunity to study for one semester or an academic year at the Southwestern University of Finance and Economics. Language of instruction is Chinese.

Colombia, Bogota. Students with Spanish fluency interested in Colombian culture have the opportunity to study for one semester or an academic year at the Universidad de Los Andes. Courses are offered in business and social science.

Costa Rica, Heredia (summer). A four-week intensive Spanish language program is offered in the summer at the National University of Costa Rica. For details and brochures, contact the Spanish Department.

Croatia, Zagreb. Students studying in the College of Fine Arts have the opportunity to study for one semester or an academic year at the Academy of Fine Arts and the Academy of Music at the University of Zagreb. The language of instruction is English.

England, Bristol. Students wishing to enroll in courses in the areas of computer science, economics, politics, sociology, history, and European social studies may study during the fall semester at the University of the West of England, Bristol.

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England, Greenwich. Students can attend for fall or spring semester or for a full academic year exchange. Courses are offered primarily in the field of education.

England, Leeds. Students wishing to be in an English city environment will find Leeds a perfect choice. Exchanges are for a fall or spring semester or the full academic year. Courses are offered in accounting, business, economics, and public relations.

England, Liverpool. Education students can attend a fall or spring semester or the full academic year at the University of Liverpool. Full curriculum is available.

England, Oxford (summer). A three-week educational and cross-cultural experience is offered in the summer at Oxford University.

England, Sheffield. Students studying business have the opportunity to study for a semester or academic year at Sheffield Hallam University.

England, Worcester. Students are offered an opportunity to study at the University of Worcester for one semester or an academic year. Courses are offered in a variety of fields of study.

Europe (ETEN).

This exchange is for Education majors. Study at the following schools: in Denmark, at Hogvangseminariet, Ribe Statsseminarium, or Silkeborg Seminarium; in the Netherlands at Haagse Hogeschool University of Professional Education or Hanzehogeschool; in Norway at Adger/Oslo or Stord University College; or in Sweden at Malmo University and Goteborg. Exchange times vary for each exchange. Some exchanges offer courses in a language other than English.

Finland, Tampere. Students studying business or occupational safety are eligible to study at Tampere University of Technology for a semester or academic year. The language of instruction is English.

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France, Nancy. The opportunity to study for one semester or academic year at the University of Nancy II (140 miles from Paris) is available to qualified students. The language of instruction is French. For business majors, courses are taught in English. For details, contact the French and German Department or, for business majors, the Eberly College of Business and Information Technology.

France, Nancy (summer). Two programs, one for English-speaking and one for French-speaking participants, are offered in the summer.

Germany, Duisburg. A semester or academic year program at the University of Duisburg is available to qualified students who possess the required German language competency. Courses are offered in German language, literature, culture, business, and natural sciences. The language of instruction is German. For further information, contact the French and German Department.

Germany, Leipzig. Graduate students in business may study one semester at the Leipzig Graduate School of Management at the University of Leipzig. M.B.A. courses are offered in all fields of business administration and economics. Advanced undergraduates with high GPAs may be considered. Most courses are taught in German.

Germany, Nürnberg. Students studying in the Eberly College of Business and Information Technology have the opportunity to study for one semester or an academic year at the Nürnberg University of Applied Sciences.

Greece, Thessaloniki. Undergraduate students looking for a great all-around, European study abroad experience can travel to American College of Thessaloniki (ACT) for one semester or one academic year. Classes are available for all majors, and the language of instruction is English.

India, Bangalore. Students in the M.B.A. program have the opportunity to study IUP courses in Bangalore on a short, summer program. For more information, contact the Eberly College of Business and Information Technology.

Ireland, Dublin. Students majoring in communications media and journalism can attend Dublin City University for a fall or spring semester or a full academic year exchange.

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Italy (Study Abroad Italy). Not fluent in Italian, but interested in Italian language and culture? Then you should consider studying at one of the English-medium institutions on offer through IUP's affiliate agreement with Study Abroad Italy: Mediterranean Center for the Arts in Sicily, John Cabot University in Rome, Florence University of Arts in Florence, or Apicius Culinary Institute in Florence or NABA or Domus Academy for Fashion in Milan. A wide range of courses are offered. The language of instruction is English.

Italy, Turin. Check out this great opportunity for graduate and undergraduate students studying business administration and economics or other related fields. Study at Università Degli Studi di Torino, Scuola di Amministrazione Aziendale (SAA) for one or two semesters. The language of instruction is Italian.

Japan, Osaka. The opportunity to study for a semester or one academic year at Kansai Gaidai University is available to students interested in Japanese culture. A variety of courses are offered in the Asian Studies Program. The language of instruction is English.

Kenya, Kenyatta. This exchange is for education majors desiring to experience African education while earning credits toward their degree. Study at Kenyatta University for a semester or an academic year. Language of instruction is English.

Macau, Taipa. This exchange focuses on business study and offers courses in the following areas: accounting, computer studies, economics, finance, management, and mathematics. The language of instruction is English.

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Malaysia, Kuala Lumpur. All students are welcome to attend INTI College, a private university, which offers a full curriculum. Exchanges are available for fall or spring semester or for a full academic year. Language of instruction is English.

Mexico, Cuernavaca (summer). Students who are studying Spanish and have an interest in experiencing Mexican culture have an opportunity to participate in a summer study program that is offered at the Center for Bilingual and Multicultural Studies, an affiliate of the University of Morelos. For details and brochures, contact the Spanish Department.

Mexico, Puebla. Students wishing to enroll in courses in Spanish, business, international relations/studies, anthropology, and hotel and restaurant management with an interest in Mexican culture have the opportunity to study at the Universidad de las Americas, Puebla, for one semester, academic year, or summer. The languages of instruction are Spanish and English (specific programs).

Norway, Kristiansand. Students may take courses offered in art, economics, social sciences, education, fine arts, and more. The language of instruction is English.

Poland, Opole. This exchange is open to psychology and studio art majors. Attend Opole University for a semester or an academic year exchange. The languages of instruction are Polish and English.

Poland, Poznan. Students studying chemistry, criminology, English, industrial and labor relations, journalism, physics, psychology, and teacher education have the opportunity to study for a semester or an academic year at Adam Mickiewicz University. The language of instruction is Polish; however, many courses are offered in English.

Russian Federation, Vladikavkaz. IUP students may study at North Ossetia State University for a semester or academic year. Language of instruction is Russian.

Slovak Republic, Bratislava. Courses in Slovak language, Slovak literature, culture, and history, English literature, English culture and history, political science, sociology, physics, and psychology are available to interested students at Comenius University. The program is for one semester or an academic year.

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Slovenia, Ljubljana. Students studying in the College of Fine Arts have the opportunity to study for one semester or an academic year at the Academy of Fine Arts and the Academy of Music at the University of Ljubljana.

Spain, Barcelona. Juniors and seniors, fluent in Spanish, with an interest in experiencing Spanish culture, have an opportunity to enroll in management, marketing, and tourism classes at Escuela Superior de Marketing I Administration. The language of instruction is Spanish.

Spain, Valladolid. Students who have completed twelve university credits in Spanish and have an interest in experiencing Spain's culture have an opportunity to participate in the Pennsylvania Valladolid Study in Spain Program during the spring semester. This experience will enable students to spend a period of twenty weeks immersed in Spanish culture and language at the University of Valladolid. For details and brochures, contact the Department of Spanish.

Sweden, Karlstad. Students wishing to enroll in a range of courses with a desire to experience Swedish culture are invited to study at Karlstad University. The language of instruction is English.

Taiwan, Danshuei. Experience life in the capital of Taiwan at Tamkang University. Across-the-board curriculum is offered for semester or academic year exchanges. Languages of instruction are Chinese and English (specific programs).

Turkey, Ankara. Students have the opportunity to study for one semester or an academic year at Middle Eastern Technical University in Ankara. Courses are taught in Turkish and English.

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International Student Exchange Program (ISEP)

The ISEP offers a wide range of educational and cultural experiences for one semester or academic year for participants at over one hundred institutions in thirty-five different countries (summer and longer exchanges are also possible). If you do not speak a foreign language, you still have many sites in which the language of instruction is English. If you do speak a foreign language, you have even more options. These programs are priced at the in-state IUP rate for all participants. For more information, visit the website at www.isep.org.

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International Student Teaching Opportunities

IUP students enrolled as teacher education majors in all certification areas are eligible to participate in this half-semester student teaching program in the following areas: Copenhagen, Denmark; London, England; Worcester, England; Paris, France; Malahide, Ireland; and Gronigen, The Netherlands. See the College of Education and Educational Technology section of this catalog for further information.

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Cultural Experiences Abroad (CEA)

IUP students can participate in a range of English-medium programs around the world through CEA. For more information, visit the website at www.gowithcea.com.

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Admissions

Vacant, Associate Vice President for Enrollment Management and Dean of Admissions

Website: www.iup.edu/admissions

E-Mail: Admissions-Inquiry@iup.edu

See the [Admissions and Registration](#) section of this catalog for information.



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New Student Orientation

Website: www.iup.edu/advisingtesting/orientation

E-mail: Advising-Testing@iup.edu

IUP offers a two-part orientation program for all new freshman and transfer students. Students 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 or transfer experience. IUP views this two-part student orientation as unique and extremely important to freshman retention and satisfaction with the university. The freshman year/first year at IUP 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 and transfer students are expected to participate fully in this two-part program.

Freshman Spring/Summer Orientation: The preregistration placement testing, advising, and course registration program occurs during the spring or summer immediately preceding students' matriculation on campus. This orientation is designed to assess academic readiness for courses integral to the IUP curriculum and acquaint students with the IUP collegiate experience. Placement tests are one of the tools used for advising students so that students can better understand their options and register for courses that are appropriate given their selected major and their proficiency in English, mathematics, and foreign languages. Students participate in an overnight, two-day experience which includes testing, academic advising, and orientation to university curricular requirements and cocurricula opportunities. Concurrent parent orientation programs are offered.

Transfer Summer Orientation: Transfer orientation serves to acquaint students with prior college experience with IUP resources to support academic and career success. The program also provides placement testing for students in selected majors. The program concludes with advisement and course registration. A concurrent parent program is 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 (or other college) environment to IUP's campus community.

CUSP: The Early Entrance Experience, a formal, credit-bearing orientation program, is offered by the Department of Developmental Studies. For more information, see [Developmental Studies](#) section of this catalog.

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Advising and Testing Center

Director: Catherine M. Dugan

Website: www.iup.edu/advisingtesting

E-mail: Advising-Testing@iup.edu

The Advising and Testing Center provides a variety of services to IUP students and faculty. The center runs the summer, fall, and January orientation programs for entering freshmen and transfer students and their parents. It offers career planning classes and computer-assisted career counseling to undecided majors, coconducts registration for January freshmen and regional campus students, processes undergraduate total university withdrawals, serves the needs of students with disabilities, and assists in providing advising information to students and advisors.

Services for Students with Disabilities

Website: www.iup.edu/advisingtesting/dss.html

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, learning, and other disabilities. Faculty and staff members 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 may 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 216 Pratt Hall or by calling 724-3574067 (V/TD).

The Major and Career Exploration Center (MCEC)

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-credit course, [ADVT 170 Career Exploration](#), taught by the Advising and Testing Center, or use the MCEC, 216 Pratt Hall. The MCEC is open afternoons and early evenings during the week. Appointments may be made by calling 724-357-5701.



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Student Services and Policies

The following services are available to IUP students but are not a part of the Division of Student Affairs.

[Computer Software Policy](#)

[Parking](#)

[Student Rights/Directory Information](#)

[Student Rights Under the Family Educational Rights and Privacy Act](#)

[Student Technology Services](#)

[University Computing Resources Policy](#)

[Wireless Communications Policy](#)

Parking

Students, faculty, and staff members who park vehicles in campus parking areas must register their vehicles with the University 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 or in the campus parking garage. The University Police Office is located in the Administrative Annex basement and can be contacted for information on parking. Rules and regulations can be accessed at the website www.iup.edu/police.

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 directory information not be publicly released by completing a form available in the Office of the Registrar, Clark Hall Lobby. Forms must be filed by the end of the first week of fall semester classes in order to have directory information omitted from the printed Campus Directory. 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.

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Student Rights Under the Family Educational Rights and Privacy Act (FERPA)

FERPA affords students certain rights with respect to their education records. They follow:

1. The right to inspect and review the student's education records within forty-five days of the day the university receives a request for access. Students should submit to the Registrar, college dean, department chair, or other appropriate official, written requests that identify the records they wish to inspect. The university official will arrange for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the official to whom the request was submitted, that official will advise the student to whom to direct the request.
2. The right to request amendment of the student's education records that he/she believes are inaccurate or misleading. Students should submit such requests in writing to the appropriate university official. The written request must clearly identify the part of the record the student wants to be changed and must specify why it is inaccurate or misleading. If the university decides not to amend the record as requested, the student will be notified by a university official of the decision, and the university official will advise the student of his/her right to a hearing regarding the requested amendment. Additional information regarding hearing procedures will be provided to the student when he or she is notified of the right to a hearing.

3. The right to consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent. One exception which permits disclosure without consent is to school officials with legitimate educational interests. A school official is a person employed by the university in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel and health staff); a person with whom the university has contracted (such as an attorney, auditor, or collection agent); a person serving on the Council of Trustees; a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his/her professional responsibility. This includes school officials in other institutions to which a student is seeking admission or intends to enroll.
4. The right to file a complaint with the United States Department of Education concerning alleged failures by IUP to comply with the requirements of FERPA. The name and address of the office that administers FERPA follows: Family Policy Compliance Office, U.S. Department of Education, 400 Maryland Avenue, SW, Washington, DC 20202-4605.

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Student Technology Services

Website: <http://old.www.iup.edu/ats/sts>

E-mail: student-helpdesk@iup.edu

Student Technology Services (STS) provides proactive and reactive measures to assist students of IUP with 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 issues related to computers and other technology on the campuses of IUP.

The Student Computing Help Desk can address student questions concerning e-mail, web pages, computer account usage, network services such as the 50MB of personal space, etc. Students may contact the help desk via phone (724-357-2198) or e-mail (Student-HelpDesk@iup.edu). The web page at www.iup.edu/ats/sts includes several sections which might help students to answer their own questions. Students are also welcome to visit the Student Computing Help Desk at 139 Gordon Hall for personal assistance with their computing problems. During regular semesters, the Student Computing Help Desk is open from 10 a.m. until 6 p.m. weekdays.

Computer Software Policy

Website: www.iup.edu/academicaffairs/policies/software.shtm

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 Technology Services for a decision on what constitutes proper use. The full text of the policy is available at the website listed above.

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University Computing Resources Policy

Website: www.iup.edu/ats/policies/resources.shtm

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. Matters governing the management and security of the information network and associated computer systems shall follow the Information Assurance Guidelines and associated procedures as approved by the Technology Utilities Council. All users have an obligation to use resources responsibly, aware that their use does cost the university, the Commonwealth of Pennsylvania, and citizens real money to provide.

Computing administration has an obligation to suspend activities which they deem 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.

Wireless Communications Policy

Policies and procedures related to wireless communication shall be developed and endorsed by the Technology Utilities Council and forwarded to the president for approval with consideration of recommendations from the Academic Computing Policy Advisory Committee, Academic Technology Operations Group, and Administrative Computing Oversight Committee.

Existing procedures and policies related to the administration and management of the campus network shall apply to all extensions of that network including wireless components.

Existing procedures and policies related to the security and integrity of the campus network apply to wireless communication.

In order to facilitate wireless communication, a portion of the radio airspace within and beyond the campus will serve as the network transport medium and be considered the wireless airspace.

The shared use of the wireless airspace will not be actively monitored. However, the university may restrict the use of radio devices in university-owned buildings and buildings owned by affiliated entities and all outdoor spaces on IUP property that adversely impacts the integrity of the campus data network.

Definition: Wireless Airspace: The airspace addressed by this policy is that defined by the IEEE 802.11 DSSS (Direct Sequence Spread Spectrum) wireless LAN specification. This includes, but is not limited to, the FCC unlicensed 2.4 GHz Industrial/Scientific/Medical (ISM) band, the 2.5 GHz band, and the 5 GHz band as defined in the 802.11a and 802.11b specifications.

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African American Cultural Center

Director: Carolyn D. Princes

Website: www.iup.edu/aacc

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 while it focuses on preserving and fostering an appreciation of African American history, culture, contributions, and development.

Opportunities for informal exchanges, meetings, and a library of varied African American materials and resources are available. Besides cultural programming, mentoring, and academic support services, opportunities also exist for leadership and personal development, instructional supplement, cross-cultural interactions, and community connections. Programming suggestions are welcomed, and AACC Booster Club membership is encouraged but not required. The center is open to the entire campus and local communities.



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Student Conduct

Director: Kathleen R. Linder

Website: www.iup.edu/studentconduct

The Office of Student Conduct provides direction and leadership for the administration of university policies and regulations regarding student behavior. This includes the adjudication of alleged violations by individual students and recognized student organizations.

IUP is an academic community within the society at large. As a community, the university has developed a code of standards and expectations that are consistent with its purpose as an educational institution. IUP reaffirms the principle of student 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 that are held by all citizens.

The intent of this educational system is to create behavioral change in the student; promote civility, openness, and justice; and also protect the rights of the members of the university community. The judicial system of IUP exists to review all alleged violations of university regulations and/or federal, state, and local ordinances. The system will hold the student accountable for his/her actions when IUP regulations or statutes have been violated.

The primary function of the judicial system is to adjudicate alleged policy violations by students that occur on campus. The university reserves the right to adjudicate violations by students in off-campus locations when those violations might adversely affect the university community. The university maintains the right to amend its rules and to make such amendments effective immediately upon appropriate public notification of students. A complete statement of regulations is available in the student handbook at www.iup.edu/studentconduct/source. For more information, call 724-357-1264 or visit Sutton Hall, Suite 401.

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Athletics

Director: Frank J. Condino

Website: <http://old.www.iup.edu/athletics>

Varsity Sports

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

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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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Student Cooperative Association

Director: Dennis V. Hulings

Website: <http://www.coop.iup.edu>

E-mail: Co-op-Store@iup.edu

The Student Cooperative Association has played an extremely broad role in the cocurricular life of the university for more than seventy years. All students and faculty and staff members 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 complex, 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, and a pond for fishing.

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. An on-line version can be found at www.coop.iup.edu/sc.

The Source (the student handbook) is distributed to all students electronically at www.iup.edu/studentconduct/source. It is maintained by the Office of Student Conduct and includes rules and regulations, the cocurricular program, and general information of interest to students.

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Career Services

Director: Mark E. Anthony

Website: www.iup.edu/career

E-mail: career-services@iup.edu

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 and internships.

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

Service Learning offers IUP students curriculum-based, wage-supported, and volunteer opportunities to explore, expand, and fulfill their altruistic interests. Service Learning works closely with nearly sixty Indiana County human service agencies and six school districts to place students in volunteer host sites.

Internships/Cooperative Learning

Many departments of the university have developed internship/cooperative education programs which allow a student to participate in university-supervised work experiences for variable academic credit. Internships/co-ops are viewed as an integral part of a student's academic preparation. An internship/co-op gives the student an opportunity to apply theoretical and philosophical tenets of a discipline in a practical job experience related to the student's academic program.

For general information about university internships, co-ops, and placement options, the students should consult the internship coordinator in the Office of Career Services, 302 Pratt Hall, or their department internship/co-op coordinator, or visit the website www.iup.edu/internships.

Experiential Education Office

The Harrisburg Internship Semester (T.H.I.S.)

The Harrisburg Internship Semester is available to an exceptional student from any IUP major for the fall or spring semester. The program provides a semester-long experience at the policymaking level in the executive or legislative branches of state government as well as independent boards, agencies, or commissions. Students will earn 15 credits.

Requirements for eligibility are 57 or more earned credits and an overall GPA of at least 3.0. Applicants must also submit a sample of their writing skills which must be a copy of an IUP writing assignment that has been graded by an instructor.

T.H.I.S. consists of an internship with a research project for 12 credits and an academic seminar for 3 credits. The program is directed by a Pennsylvania State System faculty member elected to direct the program in Harrisburg. The faculty member will be the site supervisor and teach the seminar course. Grades and credits will be recorded on the students' academic progress reports at IUP. See the course descriptions under [UNWD 480](#) and [493](#).

Housing with kitchenette is arranged through The Harrisburg Internship Semester Program at minimal cost to students. Students must first pay IUP tuition, room, and board and then be partially reimbursed via a biweekly paycheck during the semester. Students are responsible for their own transportation costs between their home and Harrisburg.

T.H.I.S. is offered through the Internship Center, Office of Career Services, in conjunction with the academic department of the successful candidate. Applications are submitted to the Internship Office, 302 Pratt Hall. Deadline for submission for fall is March 1; the spring semester deadline is October 1. See the website www.iup.edu/internships for more information.

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Center for Student Life

Director: Terry Appolonia

Website: www.iup.edu/studentlife

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 spiritual interests can be met, active participation in varied organizations is available and encouraged.

There are currently more than 220 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 currently represented by existing organizations.

Under the direction of the Center for Student Life 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 Ideas and Issues Lecture Series, On Stage Arts and Entertainment Series, and the University Concert Committee. These contemporary and performing arts series provide students both entertainment and educational experiences with many of today's most popular and classic artists.

Health AWAREness maintains a learning-centered focus by developing and delivering educational programs on issues that impact the social, physical, emotional, and spiritual lives of students. Health AWAREness addresses the needs of all students by dealing with issues related to sexuality, HIV, eating disorders, assault, alcohol and drug use, self-esteem, body image, and stress management.

Student Government Association

The Student Government Association (SGA) is the representative and recognized voice of IUP's student body. The SGA was reconstituted in the spring of 2005 to be the unified voice of the students. It is led by a president and a vice president elected at large in a spring general election. A primary responsibility of the SGA lies with the student members of various university advisory bodies, including the Student Cooperative Association Finance Committee, which allocates funds in support of university activities. Each member of the SGA is a representative on the University Senate, the institution's chief governing body. The SGA meets bimonthly. Every student enrolled at IUP is considered a member of the SGA, and input is always sought and welcome. For more information, visit SGA at 210A HUB or contact us at 724-357-1302.

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Center for Counseling and Psychological Services

Department Chair: Kim Weiner

Website: www.iup.edu/counselingcenter

Counseling and Psychological Services faculty members are psychologists who are assisted by advanced graduate students from the doctoral program in clinical psychology and master's students in counseling. 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.

Faculty members provide consultation to faculty, staff, families, and friends of students regarding mental health issues. Programs and workshops are conducted on a variety of topics, including stress management, eating disorders, grief, and healthy relationships. For more information, contact us at 357-2621 or visit 307 Pratt Hall.



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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Department of Developmental Studies

Director: Carmy G. Carranza

Website: www.iup.edu/devstudies

The Department of Developmental Studies is committed to helping underprepared students prepare, prepared students advance, and advanced students excel. With this motto as its mission, the department provides various academic support services to all IUP students.

The Department of Developmental Studies offers a package of freshman seminar courses designed to prepare first-year students with the skills and knowledge important to college success. These three 1-credit courses count toward graduation and include [DVST 150 Introduction to Higher Education](#), [DVST 160 Learning Strategies](#), and [DVST 170 Career Exploration](#).

The department also offers a pre-college experience to all incoming first-year students called CUSP: The Early Entrance Experience. This program starts one week prior to fall classes and includes the course [DVST 150 Introduction to Higher Education](#) plus activities, workshops, and seminars designed to orient students to the higher education experience, to IUP in particular, and to the factors in student success.

In addition, the department offers courses which develop learning skills to enhance academic success. Courses in three levels of developmental mathematics ([DVST 091](#), [092](#), [093](#)) and two courses in reading ([DVST 070](#), [075](#)) 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. [DVST 110 Critical Reading and Thinking](#) is a 2-credit course often linked with another content course.

The department provides noncredit educational support services 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 sessions provided by a trained staff of undergraduate peer educators. These services focus on historically difficult academic courses and majors.

All students matriculating through the Department of Developmental Studies as department advisees receive a program of freshman-year courses, developmental advisement, and academic support services.

Act 101 Program

Students identified as eligible for Act 101 support receive the Department of Developmental Studies complete freshman program. 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 department office is located in 202 Pratt Hall. Further information about the Department of Developmental Studies and the Act 101 Program can be obtained by calling 724-357-2729 or through the web at www.iup.edu/devstudies.

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Indiana University of Pennsylvania

2006-07 Undergraduate Catalog
Indiana, Pennsylvania 15705

Financial Aid

Director: Patricia C. McCarthy

Website: www.iup.edu/financialaid

E-mail: financial-aid@iup.edu

See the [Financial Aid](#) section of this catalog for information.



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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Veterans Affairs

Director: William M. Srsic

Website: www.iup.edu/veteran

E-mail: Vets@iup.edu

The Veterans Affairs Office provides many services to veterans, including academic support, tutoring, housing assistance, financial aid, and general information. The office is located in 126 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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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Health Services (Pechan Health Center)

Director: Scott R. Gibson

Website: www.iup.edu/healthcenter

E-mail: health-inquiry@iup.edu

Pechan Health Center 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, and nurses. 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, 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, the student will not be responsible for the cost of the service.

In addition to clinical care, including some minor surgical procedures, some laboratory testing, and allergy injections, Pechan Health Center offers a self-care cold center. The health center has a van to transport students to local medical facilities for scheduled appointments. The service is available during the time the health center is open (ending 30 minutes prior to closing each day or in the event of severe weather). The health fee also provides support for the programs and services of the Health Awareness office in the Center for Student Life and psychological services provided by the Center for Counseling and Psychological Services.

Students pay a per-semester mandatory health fee, which varies based upon the student's enrollment status. Some services and products are included in the health fee while others, such as medications and physicals, require an additional fee-for-service. Refer to the Finance section of this catalog for basic fee information. 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. Pechan Health Center does not bill insurance companies for services. However, students receive a receipt for each visit that can be used to submit the bill to his/her insurance company. Information about the student group health insurance plan endorsed for IUP students is available from Pechan Health Center.

IUP requires documentation of dates of immunization from new students for the following vaccines: measles, mumps, rubella, tetanus, toxoid-diphtheria, 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. Students living in university-owned residence halls and apartments are required to have the vaccination for meningococcal meningitis or to sign a waiver stating that they do not wish to have the vaccination. The documentation must be included on the Student Health Form and can take the form of one of the following:

1. Dates of vaccinations by the health care provider who gave them
2. Date of illness with the disease diagnosed by a physician
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 Pechan Health Center prior to the start of classes. Students who do not provide documentation for immunization may be prohibited from registering for classes the semester following admission. Please e-mail health-inquiry@iup.edu for questions about the health center or the health insurance plan.

Student Health Insurance

Call the Pechan Health Center at 724-357-6475 for information about student health insurance options.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Housing and Dining Information

Director: Michael W. LeMasters

Website: www.iup.edu/house

E-mail: iup-ohrl@iup.edu or iup-dining@iup.edu

[Residence Life](#)

[Freshman Residency Requirement](#)

[Residence Hall Application](#)

[Dining Services](#)

[Residence Hall Association](#)

Residence Life

IUP is a residential campus. Its twelve 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.

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 B31 Clark Hall, 724-357-2696.

In an effort to make residence hall living more responsive to individual needs, the university offers a variety of living arrangements. Student options include interest floors related to academic majors, intensive study floors, a service learning floor, a career investigation floor, and substance-free floors. Students should consider these options carefully and select the one with which they would feel most comfortable.

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Freshman Residency Requirement

A two-semester residency requirement has been implemented beginning with the 2006-07 academic year. The residency requirement has been implemented to support student academic success, enhance student development, and assist students in making a smooth transition to university life. All freshmen are required to reside on campus. Exceptions to this requirement include students who a) commute no more than 50 miles from the home of their parents or guardian, b) are married, c) have dependent children living with them, d) are veterans of military service, or e) are 21 years of age or older. Students requesting an exemption to IUP's residency requirement must complete a "Residency Requirement Exemption Request Form" available from the Office of Housing and Residence Life, Clark Hall, Room B-31, Indiana University of Pennsylvania, Indiana, PA 15705.

Residence Hall Application

First-year and transfer students will be offered residence hall license agreements as soon as they remit the \$75 tuition prepayment required to secure a place in the incoming class. The housing license agreement should be reviewed carefully and then returned with an \$80 housing prepayment by May 15. Rooms will be assigned as agreements are received with notification to students by 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 agreements.

Dining Services

IUP offers seven meal plans, six of which are available to residence hall students. Refer to the Finance section of this catalog for meal plans and fees. For more information contact iup-dining@iup.edu or on-line at www.campusdish.com.

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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English (ENGL)

Department of English
College of Humanities and Social Sciences

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

ENGL 100 Basic Writing	ENGL 329 The History of the English Language
ENGL 101 College Writing	ENGL 330 The Structure of English
ENGL 121 Humanities Literature	ENGL 332 Advanced Film
ENGL 122 Introduction to Literary Analysis	ENGL 333 Psycholinguistics
ENGL 150 English for Foreign Students	ENGL 335 The Essay
ENGL 202 Research Writing	ENGL 336 Language, Gender, and Society
ENGL 208 The Art of the Film	ENGL 337 Myth
ENGL 210 British Literature to 1660	ENGL 338 Oral Literature
ENGL 211 British Literature 1660-1900	ENGL 344 Ethnic American Literature
ENGL 212 American Literature: Beginnings to 1900	ENGL 348 African-American Literature
ENGL 213 British and American Literature Since 1900	ENGL 349 English Bible as Literature
ENGL 214 The Novel	ENGL 354 Classical Literature in Translation
ENGL 215 Poetry	ENGL 356 Film Theory
ENGL 216 Short Fiction	ENGL 357 Major Figures in Film
ENGL 217 Drama	ENGL 385 Advanced Women's Literature
ENGL 220 Advanced Composition I	ENGL 386 Regional Literature in English
ENGL 221 Creative Writing	ENGL 387 Irish Literature
ENGL 225 Introduction to Literature by Women	ENGL 390 Literary Tour: Britain
ENGL 281 Special Topics	ENGL 391 Selected Works from the Medieval Period
ENGL 301 British Medieval Literature	ENGL 393 Romanticism
ENGL 302 Renaissance Literature	ENGL 394 Nineteenth-Century European Novel in Translation
ENGL 303 British Enlightenment Literature	ENGL 395 Selected Writers from Twentieth-Century Europe
ENGL 304 British Romantic Literature	ENGL 396 The Literature of Emerging Nations
ENGL 305 British Victorian Literature	ENGL 397 Global Literature
ENGL 306 Modern British Literature	ENGL 398 Global Genres
ENGL 307 Contemporary British Literature	ENGL 399 Major Global Authors
ENGL 310 Public Speaking	ENGL 401 Advanced Literary Theory and Criticism
ENGL 311 Oral Interpretation	ENGL 420 Special Writing Applications
ENGL 312 Speech-Persuasion	ENGL 422 Technical Writing II
ENGL 313 The Rhetorical Tradition	ENGL 426 ESL Methods and Materials
ENGL 314 Speech and Communication in the Secondary English Classroom	ENGL 430 Major British Author
ENGL 315 American Literature to 1820	ENGL 432 Chaucer

ENGL 316 American Literature 1820-1880	ENGL 434 Shakespeare
ENGL 317 American Literature 1880-1940	ENGL 436 Major American Authors
ENGL 318 Literature for Adolescents	ENGL 460 Topics in Film
ENGL 319 American Literature 1940-present	ENGL 461 Topics in British Literature
ENGL 320 Advanced Composition II	ENGL 462 Topics in American Literature
ENGL 322 Technical Writing I	ENGL 480 Seminar: Studies in English and American Literature
ENGL 323 Teaching Literature and Reading in the Secondary School	ENGL 481 Special Topics
ENGL 324 Teaching and Evaluating Writing	ENGL 482 Independent Study
ENGL 325 Creative Writing: Poetry	ENGL 483 Honors Thesis
ENGL 326 Creative Writing: Fiction	ENGL 493 Internship

ENGL 100 Basic Writing

3c-0l-3cr

Develops the basic English skills necessary for clear and effective communication. Restricted to freshmen whose placement testing essay or portfolio score is a four or under. Does not meet General Education English or Liberal Studies writing requirements.

ENGL 101 College Writing

3c-var-4cr

Prerequisite: [ENGL 100](#), where required by placement testing

Normally to be taken the first semester at IUP. Uses 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-0l-3cr

Prerequisite: [ENGL 101](#)

Introduces literature of various genres through a careful analysis of poetry, fiction, and drama. Includes literature of various time periods, nationalities, and minorities.

ENGL 122 Introduction to Literary Analysis

3c-0l-3cr

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.

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ENGL 150 English for Foreign Students

3c-0l-3cr

Provides international students with an opportunity to improve their ability to speak and write English before they take [ENGL 100](#) and [101](#). Emphasizes individualized exercises and assignments. Carries graduation credit but does not meet Liberal Studies English requirements.

ENGL 202 Research Writing

3c-0l-3cr

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 is determined by the instructor.

ENGL 208 The Art of the Film

3c-0l-3cr

Concentrates on the film as an artistic medium. Eight to twelve motion pictures are shown during semester and are analyzed in class discussions.

ENGL 210 British Literature to 1660

3c-0l-3cr

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.

ENGL 211 British Literature 1660-1900

3c-0l-3cr

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.

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ENGL 212 American Literature: Beginnings to 1900

3c-0l-3cr

Prerequisites: [ENGL 101](#), [122](#), or permission

Provides an understanding of American literature from its beginning to about 1900. Concentrates primarily upon a relatively small number of major works, each of which helps to illustrate the “spirit of the age” it represents.

ENGL 213 British and American Literature Since 1900

3c-0l-3cr

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-0l-3cr

Prerequisites: [ENGL 101](#), [122](#), or permission

Surveys the development of the novel from Cervantes’ Don Quixote to the present with an emphasis on major writers and forms in English. Includes consideration of teaching the novel.

ENGL 215 Poetry

3c-0l-3cr

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.

ENGL 216 Short Fiction

3c-0l-3cr

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-0l-3cr

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.

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ENGL 220 Advanced Composition I

3c-0l-3cr

Prerequisite: [ENGL 202](#)

Primarily seeks to improve writing style, particularly in the more utilitarian forms, such as magazine article and personal essay.

ENGL 221 Creative Writing

3c-0l-3cr

Prerequisite: [ENGL 121](#) or [122](#) or [FNLG 121](#)

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-0l-3cr

Prerequisites: [ENGL 121](#) or [122](#) and [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.

ENGL 281 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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-0l-3cr

Prerequisites: [ENGL 202](#), [210](#), [211](#), [212](#), [213](#)

Examines particular literary traditions in England from the eleventh to the fifteenth centuries, excluding Chaucer. Acquaints students with the diversity of materials, ranging from prose to verse, oral to written, and serious to comic. Most texts are taught in the original Middle English, accompanied by side glosses. Translations are used where appropriate. Rather than survey the period comprehensively, the purpose is to focus closely on particular aspects or writers as selected by the instructor.

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ENGL 302 Renaissance Literature

3c-0l-3cr

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 is to focus closely on a specific literary period and on the writers of this period as selected by the instructor.

ENGL 303 British Enlightenment Literature

3c-0l-3cr

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 is to focus closely on particular aspects or writers as selected by the instructor.

ENGL 304 British Romantic Literature

3c-0l-3cr

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 is to focus closely on a specific literary period and on the writers of this period as selected by the instructor.

ENGL 305 British Victorian Literature

3c-0l-3cr

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, are 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 are explored to help us better understand our own as well as the Victorian age. Rather than survey the period comprehensively, the purpose is to focus closely on particular aspects or writers as selected by the instructor.

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ENGL 306 Modern British Literature

3c-0l-3cr

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 is to focus closely on particular aspects or writers as selected by the instructor.

ENGL 307 Contemporary British Literature

3c-0l-3cr

Prerequisites: [ENGL 202](#), [210](#), [211](#), [212](#), [213](#)

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 is to focus closely on particular aspects or writers as selected by the instructor.

ENGL 310 Public Speaking

3c-0l-3cr

Prerequisite: [ENGL 101](#)

Fundamental principles of public speaking, audience analysis, interest, and attention and selection and organization of speech material.

ENGL 311 Oral Interpretation

3c-0l-3cr

Prerequisite: [ENGL 310](#)

Emphasizes understanding and appreciation of literature through developing skill in reading aloud.

ENGL 312 Speech–Persuasion

3c-0l-3cr

Prerequisites: [ENGL 202](#), [310](#)

An advanced study of problems involved in influencing an audience.

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ENGL 313 The Rhetorical Tradition

3c-0l-3cr

Prerequisites: [ENGL 101](#), [310](#)

A survey of rhetorical theory from Greek and Roman through modern times.

ENGL 314 Speech and Communication in the Secondary English Classroom

3c-0l-3cr

Prerequisites: [ENGL 122](#), [202](#)

Offers practical and theoretical approaches to relationships between oral and written communication. Performance based (involving a variety of communication activities) and knowledge based (involving study of research on language arts relationships). Emphasizes 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-0l-3cr

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 is to focus closely on particular aspects or writers as selected by the instructor.

ENGL 316 American Literature 1820-1880

3c-0l-3cr

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 is to focus closely on particular aspects or writers as selected by the instructor.

ENGL 317 American Literature 1880-1940

3c-0l-3cr

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 is to focus closely on particular aspects or writers as selected by the instructor.

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ENGL 318 Literature for Adolescents

3c-0l-3cr

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-0l-3cr

Prerequisites: [ENGL 202](#) and at least two from [ENGL 210](#), [211](#), [212](#), [213](#)

Additional prerequisites for B.A. English majors: [ENGL 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 develops 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-0l-3cr

Prerequisites: [ENGL 202](#), [220](#)

A workshop and tutorial atmosphere for students who intend to write or teach writing.

ENGL 322 Technical Writing I

3c-0l-3cr

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-0l-3cr

Prerequisites: [ENGL 122](#), [202](#)

Introduces 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-0l-3cr

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-0l-3cr

Prerequisites: [ENGL 221](#) or instructor permission

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 creative work.

ENGL 326 Creative Writing: Fiction

3c-0l-3cr

Prerequisites: [ENGL 221](#) or instructor permission

A writing workshop for students who wish to focus intensively on the writing and revision of fiction and on developing an audience for one's creative work.

ENGL 329 The History of the English Language

1c-0l-1cr

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-0l-3cr

Prerequisite: [ENGL 202](#)

An introduction to the fundamentals of language study with an 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 [EDUC 452](#).

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ENGL 332 Advanced Film

3c-0l-3cr

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.

ENGL 333 Psycholinguistics

3c-0l-3cr

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 335 The Essay

3c-0l-3cr

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. Begins by studying Francis Bacon, the first English essayist, and follows the evolution of the form to the present day.

ENGL 336 Language, Gender, and Society

3c-0l-3cr

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-0l-3cr

Prerequisites: [ENGL 202](#) and at least two from [ENGL 210](#), [211](#), [212](#), [213](#)

Additional prerequisites for B.A. English majors: [ENGL 210](#), [211](#), [212](#), [213](#)

Examines the nature and function of the mythic experience and explores the archetypal patterns of myths from various cultures.

ENGL 338 Oral Literature

3c-0l-3cr

Prerequisites: [ENGL 202](#), [210](#), [211](#), [212](#), [213](#)

Acquaints 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, students will 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."

ENGL 344 Ethnic American Literature

3c-0l-3cr

Prerequisites: [ENGL 202](#) and at least two from [ENGL 210](#), [211](#), [212](#), [213](#)

Additional prerequisites for B.A. English majors: [ENGL 210](#), [211](#), [212](#), [213](#)

Concerned with ethnic U.S. experiences as expressed in poetry, fiction, drama, and autobiography. The topic varies and is announced in advance. Examples include Asian-American, Hispanic, Irish-American, Jewish-American, and Native-American literatures.

ENGL 348 African-American Literature

3c-0l-3cr

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. Emphasizes historical context and an Afrocentric approach.

ENGL 349 English Bible as Literature

3c-01-3cr

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-01-3cr

Prerequisites: [ENGL 121](#), [202](#)

Masterpieces studied range from those of ancient Greece to Middle Ages. English literature and American literature excluded.

ENGL 356 Film Theory

3c-01-3cr

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-01-3cr

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 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.

ENGL 385 Advanced Women’s Literature

3c-01-3cr

Prerequisites: [ENGL 202](#) and for nonmajors [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 are by “literary women,” we also consider works by women who were professionals in nonliterary disciplines.

ENGL 386 Regional Literature in English

3c-01-3cr

Prerequisites: [ENGL 202](#) and at least two from [ENGL 210](#), [211](#), [212](#), [213](#)

Additional prerequisites for B.A. English majors: [ENGL 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.

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ENGL 387 Irish Literature

3c-01-3cr

Prerequisites: [ENGL 221](#) or instructor permission

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 is examined within the contexts of Irish history, language, culture, and politics.

ENGL 390 Literary Tour: Britain

var-3cr

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-01-3cr

Prerequisites: [ENGL/FNLG 121](#) or [ENGL 122](#), [ENGL 202](#)

A comparative study of selected works of major importance per se and as representative of major themes of medieval European literature. Also listed as [FNLG 391](#).

ENGL 393 Romanticism

3c-01-3cr

Prerequisites: [ENGL/FNLG 121](#) or [ENGL 122](#), [ENGL 202](#)

A 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 [FNLG 393](#).

ENGL 394 Nineteenth-Century European Novel in Translation

3c-01-3cr

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 [FNLG 394](#).

ENGL 395 Selected Writers from Twentieth-Century Europe

3c-01-3cr

Prerequisites: [ENGL/FNLG 121](#) or [ENGL 122](#), [ENGL 202](#)

A 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](#).

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ENGL 396 The Literature of Emerging Nations

3c-01-3cr

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 are 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 397 Global Literature

3c-01-3cr

Prerequisite: [ENGL 202](#)

Examines major works in English of a particular topic in global literature by focusing on the transnational contexts of history and culture surrounding the production and reception of literature. Topic of global literature to be announced in advance.

ENGL 398 Global Genres

3c-01-3cr

Prerequisite: [ENGL 202](#)

Focuses on a specific literary genre (including, but not limited to, poetry, drama, film, the short story or the novel) as it has been developed and transformed in global contexts beyond the typical domains of the British or American literary traditions. Situates the use of a genre within transnational literary and historical developments. The global genre studied in a particular semester to be announced in advance.

ENGL 399 Major Global Authors

3c-01-3cr

Prerequisite: [ENGL 202](#)

Examines major works in English of a single major global author not included in the British or American literary traditions. Situates the author within major transnational literary and historical developments. Major author to be studied in particular semester to be announced in advance.

ENGL 401 Advanced Literary Theory and Criticism

3c-01-3cr

Prerequisites: [ENGL 202](#), [210](#), [211](#), [212](#), [213](#)

Acquaints with major issues and problems in literary theory. Rather than survey the history of criticism and theory, the focus is on modern and contemporary critical schools and methods. Introduces a select group of influential theories and theorists and how such theories impact the way we

read, study, and teach literature and cultural studies.

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ENGL 420 Special Writing Applications

3c-01-3cr

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 read, analyze, and compose essays that build meaning around disciplinary knowledge, independent reading, and personal or preprofessional experience. Encourages students to make connections between disciplinary knowledge and emerging knowledge or experience.

ENGL 422 Technical Writing II

3c-01-3cr

Prerequisite: [ENGL 322](#)

An advanced workshop/tutorial that provides intensive instruction in technical writing. Builds on the basics of audience, readability, proposals and reports, letters, memos, and resumes 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 426 ESL Methods and Materials

3c-01-3cr

Prerequisite: Senior standing or instructor permission

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. (Offered as ENGL 334 prior to 2003-04)

ENGL 430 Major British Author

3c-01-3cr

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-01-3cr

Prerequisites: [ENGL 202](#), [210](#), [211](#), [212](#), [213](#)

Studies Chaucer, his life, his language, the development of his literary style, and his art, with and through his major poetical works.

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ENGL 434 Shakespeare

3c-01-3cr

Prerequisites: [ENGL 202](#) and at least two from [ENGL 210](#), [211](#), [212](#), [213](#)

Additional prerequisites for B.A. English majors: [ENGL 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.

ENGL 436 Major American Authors

3c-01-3cr

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.

ENGL 460 Topics in Film

3c-01-3cr

Prerequisites: [ENGL 101](#), [208](#)

Selected films dealing with a specific, advanced topic are viewed and assessed to explore the different roles that film plays. Topic to be announced in advance.

ENGL 461 Topics in British Literature

3c-01-3cr

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-01-3cr

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-3cr

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-1-3cr

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-1-6cr

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.

ENGL 483 Honors Thesis

var-1-6cr

Prerequisites: Admission to departmental honors program; prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office

An intensive, focused study involving independent research culminating in a written thesis approved by a thesis director and two faculty readers/committee members. May be taken more than once to a maximum of 6sh.

ENGL 493 Internship

var-3-12cr

On-the-job training opportunities in related areas. Application and acceptance to internship program required.

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History (HIST)

Department of History
College of Humanities and Social Sciences

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

HIST 195 The Modern Era	HIST 340 Colonial America
HIST 200 Introduction to History	HIST 341 American Revolution
HIST 201 Western Civilization Before 1600	HIST 342 The Early Republic
HIST 202 Western Civilization Since 1600	HIST 343 Civil War and Reconstruction
HIST 203 United States History for Historians	HIST 344 Industrializing America
HIST 204 United States History to 1877	HIST 345 America in War and Depression, 1914-1945
HIST 205 United States History Since 1877	HIST 346 Recent United States History
HIST 206 History of East Asia	HIST 350 History of Latin America Colonial Period, 1450-1820
HIST 208 Survey of Latin American History	HIST 351 History of Latin America: National Period, 1820-Present
HIST 210 Ancient Civilization: The Middle East and the Eastern Mediterranean	HIST 355 African History I: Antiquity to 1600
HIST 212 Ancient and Medieval Europe	HIST 356 African History II: 1600 to Present
HIST 214 Themes in American History	HIST 360 History of Pennsylvania
HIST 251 United States Military History	HIST 361 History of American Diplomacy, 1775-1900
HIST 281 Special Topics	HIST 362 History of American Diplomacy, 1900-present
HIST 301 History of Ancient Greece	HIST 363 Thought and Culture in Early America
HIST 302 History of Ancient Rome	HIST 364 Thought and Culture in Modern America
HIST 303 Medieval Europe I, 400-1000	HIST 365 History of Black America Since Emancipation
HIST 304 Medieval Europe II, 1000-1300	HIST 366 African-American Women
HIST 305 Renaissance and Reformation	HIST 367 Native American History
HIST 306 Early Modern Europe	HIST 369 Women in America
HIST 307 History of Europe: 1815-1914	HIST 370 Religion in America
HIST 308 Twentieth-Century Europe	HIST 372 History of the Early American Working Class
HIST 310 Making Italy Modern	HIST 373 History of the Modern American Working Class
HIST 311 Rise and Fall of Hitler's Empire	HIST 374 History of Organized Crime
HIST 320 History of England to 1688	HIST 390 History of Women-World Cultures
HIST 321 History of England, 1688 to Present	HIST 391 Film as History
HIST 322 French Revolution and Napoleon	HIST 394 Introduction to Classical Archaeology
HIST 323 France, 1815 to the Present	HIST 401 Topics in United States History
HIST 324 History of Germany to 1848	HIST 402 Topics in European History
HIST 325 History of Germany: 1849 to the Present	HIST 403 Topics in Non-Western History
HIST 326 History of Russia	HIST 404 Topics in Comparative History
HIST 327 Soviet Union and Contemporary Russia	HIST 480 Senior Seminar

HIST 329 The History of the Byzantine Empire	HIST 481 Special Studies in History
HIST 330 History of the Islamic Civilization	HIST 482 Independent Study
HIST 331 Modern Middle East	HIST 483 Honors Thesis
HIST 332 History of Early China	HIST 487 Honors Colloquium in History
HIST 334 History of Modern China	HIST 493 Internship
HIST 337 History of Modern Japan	

HIST 195 The Modern Era

3c-0l-3cr

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 195 to meet the Liberal Studies humanities requirements.)

HIST 200 Introduction to History

3c-0l-3cr

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-0l-3cr

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 202 Western Civilization Since 1600

3c-0l-3cr

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-0l-3cr

Prerequisite: History majors or instructor permission

Introduces aspiring historians to United States history since 1763. Emphasizes the issues, methods, and problems that currently concern professional historians.

HIST 204 United States History to 1877

3c-0l-3cr

Prerequisite: History, History Pre-Law, or Social Studies Education majors

An introduction to United States history from the Colonial period through Reconstruction, covering such main currents as the founding of American society, the American Revolution, the making of the Constitution, the market revolution, westward expansion, slavery, the Civil War, and Reconstruction.

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HIST 205 United States History Since 1877

3c-0l-3cr

Prerequisite: History, History Pre-Law, or Social Studies Education majors

An introduction to United States history 1877 to the present covering such main currents as industrialization, Progressivism, World War I, the Great Depression and New Deal, World War II and the Cold War, the 1960s, the Vietnam War, and post-Vietnam political, social, and economic developments.

HIST 206 History of East Asia

3c-0l-3cr

History of China and Japan from ancient times, Buddhism, medieval Japan, Chinese communism, industrialization. Some consideration of peripheral Asia from 1500. Open to History and non-History majors. (Offered as HIST 335 prior to 2002-03)

HIST 208 Survey of Latin American History

3c-0l-3cr

A survey course presenting in various forms the origin and development of major political, social, cultural, religious, and intellectual institutions in

Latin America from pre-Columbian times to the present. Introduces issues and interpretations encountered in upper level courses. Open to History and non-History majors.

HIST 210 Ancient Civilization: The Middle East and the Eastern Mediterranean

3c-01-3cr

Not open to History and Secondary Social Studies Education majors. An examination of the development and the spread of ancient civilization in ancient Middle East and the Eastern Mediterranean. Topics of study 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.

HIST 212 Ancient and Medieval Europe

3c-01-3cr

Not open to History and Secondary Social Studies 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 are stressed as well as the political history.

HIST 214 Themes in American History

3c-01-3cr

Prerequisite: [HIST 195](#)

Open only to non-History majors. Designed to give an appreciation of the basic themes and issues in the making of American society. Examines 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.

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HIST 251 United States Military History

3c-01-3cr

Prerequisite: Not applicable toward the HIST major

A survey of the history and transformation of the American military from the Colonial period to the present time. American military history is analyzed within the context of the nation's political, social, economic, and cultural development. Central themes include war-making, civil-military relations, and military professionalism.

HIST 281 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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.

HIST 301 History of Ancient Greece

3c-01-3cr

Prerequisites: Sophomore standing; [HIST 195](#) (nonmajors)

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-01-3cr

Prerequisites: Sophomore standing; [HIST 195](#) (nonmajors)

Traces Roman history from early Republic down to fall of Empire. Roman political theory is particularly emphasized.

HIST 303 Medieval Europe I, 400-1000

3c-01-3cr

Prerequisites: Sophomore standing; [HIST 195](#) (nonmajors)

History of early Medieval Europe, from decline of Rome to beginnings of High Middle Ages; emphasis on political, social, economic, religious, and intellectual developments.

HIST 304 Medieval Europe II, 1000-1300

3c-01-3cr

Prerequisites: Sophomore standing; [HIST 195](#) (nonmajors)

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-0l-3cr

Prerequisites: Sophomore standing; [HIST 195](#) (nonmajors)

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-0l-3cr

Prerequisites: Sophomore standing; [HIST 195](#) (nonmajors)

Greatness of France under Louis XIV; Sweden; Thirty Years' War. Emergence of modern society; French Revolution.

HIST 307 History of Europe: 1815-1914

3c-0l-3cr

Prerequisites: Sophomore standing; [HIST 195](#) (nonmajors)

The study of Europe in nineteenth century, with emphasis on the emergence of major thought patterns, Romanticism, Nationalism, Socialism, and Positivism.

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HIST 308 Twentieth-Century Europe

3c-0l-3cr

Prerequisites: Sophomore standing; [HIST 195](#) (nonmajors)

Political, economic, and diplomatic trends in Europe since 1900, with major emphasis on causes and results of war and search for security.

HIST 310 Making Italy Modern

3c-0l-3cr

Prerequisites: Sophomore standing and completion of [HIST 195](#) (nonmajors)

Surveys the principal themes in the transformation of Italian cultural, social, economic and political structures since the nineteenth century. Topics include Italian unification, the growth of national culture; the development of a modern state, economy, and society; Italy's role in the Mediterranean; Italian emigration throughout the world; the impact of modernity; Fascism and Anti-Fascism; and Italy in the post-World War II era.

HIST 311 Rise and Fall of Hitler's Empire

3c-0l-3cr

Prerequisites: Sophomore standing; [HIST 195](#) (nonmajors)

An 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.

HIST 320 History of England to 1688

3c-0l-3cr

Prerequisites: Sophomore standing; [HIST 195](#) (nonmajors)

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-0l-3cr

Prerequisites: Sophomore standing; [HIST 195](#) (nonmajors)

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 twenty-first-century world. Attention given to social and cultural history.

HIST 322 French Revolution and Napoleon

3c-0l-3cr

Prerequisites: Sophomore standing; [HIST 195](#) (nonmajors)

Brief sketch of Old Regime, concentration on Revolution and Empire, with emphasis on politics, social structure, diplomacy, and economics.

HIST 323 France, 1815 to the Present

3c-0l-3cr

Prerequisites: Sophomore standing; [HIST 195](#) (nonmajors)

Provides a survey of French history from the end of the Napoleonic era to the present. Pays special attention to the revolutionary tradition in politics, changes in the lives of workers and peasants, the French experience in the two world wars, and recent social and political trends.

HIST 324 History of Germany to 1848

3c-0l-3cr

Prerequisites: Sophomore standing; [HIST 195](#) (nonmajors)

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-0l-3cr

Prerequisites: Sophomore standing; [HIST 195](#) (nonmajors)

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.

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HIST 326 History of Russia

3c-0l-3cr

Prerequisites: Sophomore standing; [HIST 195](#) (nonmajors)

General survey of Russian history, culture, and institutions. Special consideration given to the study of historical forces formative of Revolution of 1917.

HIST 327 Soviet Union and Contemporary Russia

3c-0l-3cr

Prerequisites: Sophomore standing; [HIST 195](#) (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 329 The History of the Byzantine Empire

3c-0l-3cr

Prerequisites: Sophomore standing; [HIST 195](#) (nonmajors)

An introduction to early Byzantine civilization and history, A.D. 400-1300. Traces the transformation of the ancient world and the emergence of a distinctly medieval Byzantine civilization.

HIST 330 History of the Islamic Civilization

3c-0l-3cr

Prerequisites: Sophomore standing; [HIST 195](#) (nonmajors)

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-0l-3cr

Prerequisites: Sophomore standing; [HIST 195](#) (nonmajors)

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 332 History of Early China

3c-0l-3cr

Prerequisites: Sophomore standing; [HIST 195](#) (nonmajors)

China from the dawn of history to the Tang Dynasty. Focuses on the creation of the intellectual and political systems that have dominated China and East Asia down to the present. Looks in depth at the origins of Chinese philosophy and the imperial system.

HIST 334 History of Modern China

3c-0l-3cr

Prerequisites: Sophomore standing; [HIST 195](#) (nonmajors)

The history of China from the late Ming to the present. The Late Imperial political economic and social systems and the problems they faced in the nineteenth century. Reforming China from Self-Strengthening to Mao. Revolutionary society and its discontents. The Reform era and China today.

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HIST 337 History of Modern Japan

3c-0l-3cr

Prerequisites: Sophomore standing; [HIST 195](#) (nonmajors)

The history of Japan from the beginning of the Tokugawa period to the present. Japan's early modern political, economic, and social systems, their

transformation in the Meiji era, and the Japanese people's struggles and successes in the twentieth century.

HIST 340 Colonial America

3c-01-3cr

Prerequisites: Sophomore standing; [HIST 195](#) (nonmajors)

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-01-3cr

Prerequisites: Sophomore standing; [HIST 195](#) (nonmajors)

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 are discussed.

HIST 342 The Early Republic

3c-01-3cr

Prerequisites: Sophomore standing; [HIST 195](#) (nonmajors)

A survey of United States history from 1783 to 1850, with special attention on constitutional, political, economic, and social trends.

HIST 343 Civil War and Reconstruction

3c-01-3cr

Prerequisites: Sophomore standing; [HIST 195](#) (nonmajors)

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 Industrializing America

3c-01-3cr

Prerequisites: Sophomore standing; [HIST 195](#) (nonmajors)

A study of the industrial revolution and its consequences in America through 1917. Topics include new technology and entrepreneurship, the development of middle and working class consciousness, immigration and ethnicity, gender, urban growth, the beginnings of consumer culture and commercialized leisure, intellectual developments, protest movements, and the Progressive Era's political reforms.

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HIST 345 America in War and Depression, 1914-1945

3c-01-3cr

Prerequisites: Sophomore standing; [HIST 195](#) (nonmajors)

A study of the social, economic, political, and cultural response to war and depression in America. Topics include the First World War, the 1920s, the Depression, the New Deal, and the Second World War.

HIST 346 Recent United States History

3c-01-3cr

Prerequisites: Sophomore standing; [HIST 195](#) (nonmajors)

Examines the major political, economic, social, and cultural changes in America since 1945 with a focus on their causes, character, and significance; also explores the role of the United States in global relations.

HIST 350 History of Latin America Colonial Period, 1450-1820

3c-01-3cr

Prerequisites: Sophomore standing; [HIST 195](#) (nonmajors)

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-01-3cr

Prerequisites: Sophomore standing; [HIST 195](#) (nonmajors)

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.

HIST 355 African History I: Antiquity to 1600

3c-01-3cr

Prerequisites: Sophomore standing; [HIST 195](#) (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-01-3cr

Prerequisites: Sophomore standing; [HIST 195](#) (nonmajors)

A survey of African sociocultural, political, and economic developments during the colonial and modern periods. Covers imperialism, the struggle for control for Africa, the two global wars and their repercussions for Africa, decolonization, and modern African states.

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HIST 360 History of Pennsylvania

3c-01-3cr

Prerequisites: Sophomore standing; [HIST 195](#) (nonmajors)

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.

HIST 361 History of American Diplomacy, 1775-1900

3c-01-3cr

Prerequisites: Sophomore standing; [HIST 195](#) (nonmajors)

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-01-3cr

Prerequisites: Sophomore standing; [HIST 195](#) (nonmajors)

Treats primarily our twenty-first-century involvement in world affairs and domestic debate over that involvement. Special emphasis is on the role of interest groups and increasing power of Executive Department over foreign affairs.

HIST 363 Thought and Culture in Early America

3c-01-3cr

Prerequisites: Sophomore standing; [HIST 195](#) (nonmajors)

Selected topics in early American intellectual and cultural growth, with emphasis on Puritanism, Enlightenment, cultural nationalism, and Romantic movement.

HIST 364 Thought and Culture in Modern America

3c-01-3cr

Prerequisites: Sophomore standing; [HIST 195](#) (nonmajors)

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-01-3cr

Prerequisites: Sophomore standing; [HIST 195](#) (nonmajors)

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-01-3cr

Prerequisites: Sophomore standing; [HIST 195](#) (nonmajors)

Major economic, social, and political issues which have affected black women since their introduction into North America to the present.

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HIST 367 Native American History

3c-01-3cr

Prerequisites: Sophomore standing; [HIST 195](#) (nonmajors)

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.

HIST 369 Women in America

3c-0l-3cr

Prerequisites: Sophomore standing; [HIST 195](#) (nonmajors)

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-0l-3cr

Prerequisites: Sophomore standing; [HIST 195](#) (nonmajors)

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-0l-3cr

Prerequisites: Sophomore standing; [HIST 195](#) (nonmajors)

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 are examined as well as unions such as the National Labor Union and the Knights of Labor.

HIST 373 History of the Modern American Working Class

3c-0l-3cr

Prerequisites: Sophomore standing; [HIST 195](#) (nonmajors)

Description and analysis of the nature and significance of the working class of the United States in the twenty-first century. Work settings and strikes are 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-0l-3cr

Prerequisites: Sophomore standing; [HIST 195](#) (nonmajors)

Studies the relationship between urban, entrepreneurial crime and the evolution of industrial America.

HIST 390 History of Women–World Cultures

3c-0l-3cr

Prerequisites: Sophomore standing; [HIST 195](#) (nonmajors)

Explores religious, legal, political, economic, and mythic dimensions of women in society from ancient to modern times, including Western and non-Western experiences.

HIST 391 Film as History

3c-0l-3cr

Prerequisites: Sophomore standing; [HIST 195](#) (nonmajors)

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 394 Introduction to Classical Archaeology

HIST 401 Topics in United States History

HIST 402 Topics in European History

HIST 403 Topics in Non-Western History

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HIST 394 Introduction to Classical Archaeology

3c-0l-3cr

Prerequisites: Sophomore standing; [HIST 195](#) (nonmajors)

An introduction to the archaeology of the Classical world. A variety of sites, artifacts, and monuments will be examined with an emphasis on archaeological problems such as the recording and interpretation of archaeological evidence, the relation between historical and archaeological events, and the use and misuse of ancient texts. Attention is given to developments in theory and methodology and to the history of the discipline of Classical Archaeology from antiquity to the present day.

HIST 401 Topics in United States History

3c-0l-3cr

Prerequisites: [HIST 200](#) and junior/senior History, History Pre-Law or Social Studies Education majors or by instructor permission

An upper-division course emphasizing lecture, reading, discussion, and writing on specialized topics relating to historical issues of the United States of America. The theme varies from semester to semester according to the expertise of the faculty member teaching the course.

HIST 402 Topics in European History

3c-0l-3cr

Prerequisites: [HIST 200](#) and junior/senior History, History Pre-Law or Social Studies Education majors or by instructor permission

An upper-division course emphasizing lecture, reading, discussion, and writing on specialized topics relating to European historical issues. The theme varies from semester to semester according to the expertise of the faculty member teaching the course.

HIST 403 Topics in Non-Western History

3c-0l-3cr

Prerequisites: [HIST 200](#) and junior/senior History, History Pre-Law or Social Studies Education majors or by instructor permission

An upper-division course emphasizing lecture, reading, discussion, and writing on specialized topics relating to non-Western historical issues. The theme varies from semester to semester according to the expertise of the faculty member teaching the course.

HIST 404 Topics in Comparative History

3c-0l-3cr

Prerequisites: [HIST 200](#) and junior/senior History, History Pre-Law or Social Studies Education majors or by instructor permission

An upper-division course emphasizing lecture, reading, discussion, and writing on specialized topics relating to comparative historical issues. The theme varies from semester to semester according to the expertise of the faculty member teaching the course.

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HIST 480 Senior Seminar

3c-0l-3cr

A regimen of research resulting in a written paper. Work on a program selected by the instructor. For History majors or by instructor's permission.

HIST 481 Special Studies in History

var-1-3cr

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.

HIST 482 Independent Study

var-3-6cr

Prerequisites: Prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office with 12cr 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 Honors Thesis

var-3-6cr

Prerequisites: History, History Pre-Law, or Social Science Education/History Track major; 3.25 cumulative GPA; 3.5 GPA in History courses, departmental permission. Approval is based on academic appropriateness and availability of resources.

A two-semester sequence of research and writing, culminating in an honors thesis. Honors theses are completed individually under the direction of a department professor who specializes in the student's area of interest and are approved by a thesis committee comprising the director and two others, one of whom may come from outside the History Department. May be taken twice for a total of 6cr. Completion of 6cr of HIST 483 substitutes for [HIST 480](#).

HIST 487 Honors Colloquium in History

3c-0l-3cr

Colloquium emphasizing reading, discussion, and writing on an announced historical topic or theme which varies 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 Studies Education majors who have at least a 3.5 GPA in history classes.

HIST 493 Internship

var-3-12cr

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 are required.

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Mathematics (MATH)

Department of Mathematics
College of Natural Sciences and Mathematics

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

MATH 100 Intermediate Algebra	MATH 417 Statistical Applications
MATH 101 Foundations of Mathematics	MATH 418 Sampling Survey Theory and Its Application
MATH 105 College Algebra	MATH 420 Patterns and Functions for Elementary and Middle School Teachers
MATH 110 Elementary Functions	MATH 421 Advanced Calculus I
MATH 115 Applied Mathematics for Business	MATH 422 Advanced Calculus II
MATH 117 Principles of Mathematics	MATH 423 Complex Variables
MATH 121 Calculus I for Natural and Social Sciences	MATH 425 Applied Mathematical Analysis I
MATH 122 Calculus II for Natural and Social Sciences	MATH 427 Introduction to Topology
MATH 123 Calculus I for Physics, Chemistry, and Mathematics	MATH 430 Seminar in Teaching Secondary School Mathematics
MATH 124 Calculus II for Physics, Chemistry, and Mathematics	MATH 445 Deterministic Models in Operations Research
MATH 151 Elements of Mathematics I	MATH 446 Probabilistic Models in Operations Research
MATH 152 Elements of Mathematics II	MATH 447 Modeling and Simulation
MATH 171 Introduction to Linear Algebra	MATH 451 Numerical Methods for Supercomputers
MATH 214 Probability and Statistics for Business Majors	MATH 452 Seminar in Teaching Algebra
MATH 216 Probability and Statistics for Natural Sciences	MATH 453 Seminar in Teaching Geometry
MATH 217 Probability and Statistics	MATH 454 Seminar in Teaching General Mathematics
MATH 219 Discrete Mathematics	MATH 455 Seminar in Teaching Probability and Statistics
MATH 241 Differential Equations	MATH 456 Geometry for Elementary and Middle School Teachers
MATH 271 Introduction to Mathematical Proofs I	MATH 457 Number Theory for Elementary and Middle School Teachers
MATH 272 Introduction to Mathematical Proofs II	MATH 458 Logic and Logical Games for Elementary and Middle School Teachers
MATH 281 Special Topics	MATH 459 Technology in Elementary and Middle School Mathematics Instruction
MATH 317 Probability and Statistics for Elementary and Middle School Teachers	MATH 460 Technology in Mathematics Instruction
MATH 320 Mathematics for Early Childhood	MATH 465 Topics in Statistics
MATH 340 Principles of Secondary School Mathematics	MATH 471 Basic Concepts of Algebra
MATH 342 Advanced Mathematics for Applications	MATH 476 Abstract Algebra I
MATH 350 History of Mathematics	MATH 477 Abstract Algebra II
MATH 353 Theory of Numbers	MATH 480 Senior Seminar
MATH 355 Foundations of Geometry I	MATH 481 Special Topics

MATH 363 Mathematical Statistics I	MATH 482 Independent Study
MATH 364 Mathematical Statistics II	MATH 490 Independent Study
MATH 366 Preparation for Actuarial Examinations	MATH 493 Internship in Mathematics
MATH 371 Linear Algebra	

MATH 100 Intermediate Algebra

3c-0l-3cr
 Note: Students may not take this course after successfully completing [MATH 105](#) or [110](#) or a calculus course without written Mathematics Department chairperson approval

Basic course in algebra including factoring, exponents and radicals, systems of linear equations, complex fractions, and inequalities. 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-0l-3cr
 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-0l-3cr
Prerequisite: [MATH 100](#) or appropriate Placement Test Score or permission of the Mathematics Department chairperson
 Note: Students may not take this course after successfully completing either a calculus course or [MATH 110](#) without written Mathematics Department chairperson approval
 Prepares students for the study of calculus for business, natural, and social sciences. Topics include detailed study of polynomial, exponential, and logarithmic functions.

MATH 110 Elementary Functions

3c-0l-3cr
Prerequisite: [MATH 100](#) or appropriate Placement Test Score or permission of the Mathematics Department chairperson
Note: Students may not take this course after successfully completing a calculus course without written Mathematics Department chairperson approval
 Prepares mathematics and science students for the study of calculus. Topics include detailed study of polynomial, exponential, logarithmic, and trigonometric functions.

MATH 115 Applied Mathematics for Business

4c-0l-4cr
Prerequisites: [MATH 105](#) or appropriate Placement Test score or permission of the Mathematics Department chairperson
 Note: Students may not take this course after successfully completing a calculus course without written Mathematics Department chairperson approval
 Offers a review of elementary functions including logarithmic and exponential functions. Business majors are introduced to the mathematics of finance and central ideas of the calculus, including limit, derivative, and integral. Applications to business and economics are emphasized.

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MATH 117 Principles of Mathematics

3c-0l-3cr
 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 Natural and Social Sciences

3c-0l-3cr
 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 Natural and Social Sciences

4c-0l-4cr

Prerequisite: [MATH 105](#) or [110](#) or appropriate Placement Test Score or permission of the Mathematics Department chairperson

Note: May not take this course after successfully completing a calculus course without written Mathematics Department chairperson approval
Offers a review of elementary functions, including logarithmic and exponential functions. Natural and Social Science majors are introduced to the central ideas of calculus, including limit, derivative, and integral. Applications to natural and social sciences are emphasized.

MATH 122 Calculus II for Natural and Social Sciences

4c-0l-4cr

Prerequisite: [MATH 121](#)

Applications of integrals to natural and social sciences, functions of several variables, trigonometric functions, sequences and series, numerical methods, and differential equations.

MATH 123 Calculus I for Physics, Chemistry, and Mathematics

4c-0l-4cr

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-0l-4cr

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 151 Elements of Mathematics I

3c-0l-3cr

Topics included are sets, concepts of logic, mathematical systems, systems of numeration, developing the set of integers, rational numbers, and real numbers.

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MATH 152 Elements of Mathematics II

3c-0l-3cr

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-0l-3cr

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-0l-3cr

Studies 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-0l-4cr

Prerequisite: [MATH 121](#) or [123](#)

Frequency distributions, measures of central tendency and variation, probability, probability distributions, sampling distributions. Hypothesis testing for means, variances, proportions. Correlation and prediction, regression, analysis of variance, and nonparametric statistics. Emphasis is on applications.

MATH 217 Probability and Statistics

3c-0l-3cr

(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-0l-3cr

Prerequisite: [COSC 110](#) and [MATH 122](#) or [123](#)

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. Emphasizes developing an intuitive understanding of basic structures rather than formal theories and influence of these topics on theory and practice of computing.

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MATH 241 Differential Equations

3c-0l-3cr

Prerequisites: [MATH 122](#) or [124](#)

Emphasizes techniques of solution and applications of differential equations. Topics include first order equations, second order linear equations, systems of linear equations, and series solutions of differential equations.

MATH 271 Introduction to Mathematical Proofs I

3c-0l-3cr

Prerequisites: [MATH 123](#) and [171](#)

Gives basic ideas 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-0l-3cr

Prerequisites: [MATH 124](#) and [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-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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 Probability and Statistics for Elementary and Middle School Teachers

3c-0l-3cr

Prerequisites: [MATH 152](#), Elementary Education concentration

Introduces students to elementary concepts of probability and statistics, enabling them to analyze data, make predictions, and determine which concepts may be used with children.

MATH 320 Mathematics for Early Childhood

3c-0l-3cr

Prerequisites: [MATH 151](#), Early Childhood Education/PreK-Grade 6 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.

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MATH 340 Principles of Secondary School Mathematics

3c-0l-3cr

Prerequisite: [MATH 271](#)

Provides the mathematics content needed to teach in secondary schools. Connections are made between advanced and secondary school mathematics. Open to secondary mathematics education majors only.

MATH 342 Advanced Mathematics for Applications

4c-0l-4cr

Prerequisite: [MATH 241](#)

Deals with the application of mathematics to problems of science. Emphasizes the three phases of such an application and the development of skills necessary to carry out each step: 1) translation of the given physical information to a mathematical model; 2) treatment of the model by mathematical methods; 3) interpretation of the mathematical result in physical terms. Topics include vector calculus, integral theorems, Fourier series, partial differential equations, and the Laplace transformation.

MATH 350 History of Mathematics

3c-0l-3cr

Prerequisite: [MATH 122](#) or [124](#) or instructor permission

Development of the central concepts of mathematics from ancient times up to the development of calculus in the seventeenth century. Mathematical concepts are 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-0l-3cr

Prerequisite: [MATH 271](#) with a grade of C or better

Divisibility, congruences, primitive roots, number theoretic functions, Diophantine equations, continued fractions, quadratic residues.

MATH 355 Foundations of Geometry I

3c-0l-3cr

Prerequisites: [MATH 171](#), [271](#) with a grade of C or better

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.

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MATH 363 Mathematical Statistics I

3c-0l-3cr

Prerequisites: [MATH 122](#) or [124](#); [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-0l-3cr

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-1cr

Prerequisites: [MATH 171](#) and calculus sequence

An introduction to the actuarial profession which also helps the student prepare for the first actuarial examinations. The examination preparation consists of studying sample actuarial examinations and related material. Student is required to take the actuarial examination. Student should be aware that for most students, considerable study beyond the requirements of this 1cr course is required in order to pass the actuarial examinations.

MATH 371 Linear Algebra

3c-0l-3cr

Prerequisites: [MATH 171](#), [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-0l-3cr

Prerequisites: [MATH 214](#), [216](#), or [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 are reviewed, including regression analysis and prediction, hypothesis testing, analysis of variance and covariance, and partial and multiple correlation. Emphasizes 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-0l-3cr

Prerequisites: (For non-Math majors) [MATH 214](#), [216](#), or [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 are introduced. Consideration to the practical problems associated with implementation.

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MATH 420 Patterns and Functions for Elementary and Middle School Teachers

3c-0l-3cr

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 and logarithmic functions, and all other inverse functions. Students examine curricular materials that develop function concepts in Grades K-8.

MATH 421 Advanced Calculus I

3c-01-3cr

Prerequisites: [MATH 124](#) and [272](#) with a grade of C or better

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-01-3cr

Prerequisite: [MATH 421](#)

Includes the study of convergence sequences in \mathbb{R}^n , global properties of continuity, uniform continuity, differentiation of \mathbb{R}^n , Riemann integrals, and infinite series.

MATH 423 Complex Variables

3c-01-3cr

Prerequisite: [MATH 124](#)

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-01-3cr

Prerequisites: Calculus sequence, introductory linear algebra, or instructor permission

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-01-3cr

Prerequisite: [MATH 272](#) with a grade of C or better

A study of sets, functions, continuity, compactness, the separation axioms, and metric spaces; application of topology to analysis is demonstrated.

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MATH 430 Seminar in Teaching Secondary School Mathematics

3c-01-3cr

Prerequisite: Junior standing

Provides insights into the teaching of general mathematics, algebra, geometry, probability, and statistics. Students become aware of and use the resources and methods of instruction for teaching mathematics at the secondary level. Open to secondary mathematics education majors only and must be taken within two semesters prior to student teaching.

MATH 445 Deterministic Models in Operations Research

3c-01-3cr

Prerequisites: [MATH 122](#) or [124](#); [171](#)

An introduction to using the basic tools of solving deterministic models in operations research. Includes optimization techniques and applications such as linear programming, nonlinear and dynamic programming, transportation models, and network models. In addition, sensitivity analysis, duality, simplex methods, and integer programming are discussed. Uses technology to solve problems and interpret the results. (Titled Programming Models in Operations Research prior to 2005-06)

MATH 446 Probabilistic Models in Operations Research

3c-01-3cr

Prerequisites: [MATH 122](#) or [124](#); [171](#); [216](#)

A survey of probabilistic methods for solving decision problems under uncertainty. Probability review, decision theory, queuing theory, inventory models, and Markov chains are covered. Uses technology to solve problems and interpret the results.

MATH 447 Modeling and Simulation

3c-0l-3cr

Prerequisites: [MATH 122](#) or [124](#); [171](#); [216](#)

Construction and solution of mathematical models. Emphasizes applications in areas such as logistics, natural and social sciences, and manufacturing. Discrete and continuous system models are analyzed using mathematical and computer-based methods. An introduction to computer simulation. An introductory course in differential equations is recommended but not required. (Titled Simulation Models prior to 2005-06)

MATH 451 Numerical Methods for Supercomputers

3c-0l-3cr

Prerequisites: [ATH 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 are introduced to these features and learn how numerical algorithms can be constructed to exploit supercomputers' capabilities. They 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)

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MATH 452 Seminar in Teaching Algebra

var-1-4cr

MATH 453 Seminar in Teaching Geometry

var-1-4cr

MATH 454 Seminar in Teaching General Mathematics

var-1-4cr

Designed for pre-student teachers, who gain insights into the problems in teaching each topic and become aware of the materials available and of methods of instruction geared to the special type of student. Education majors only.

MATH 455 Seminar in Teaching Probability and Statistics

1c-0l-1cr

Designed for pre-student teachers, who 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-0l-3cr

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-0l-3cr

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. Examines 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-0l-3cr

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.

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MATH 459 Technology in Elementary and Middle School Mathematics Instruction

3c-0l-3cr

Prerequisites: [MATH 152](#), Elementary Education concentration

Develops the knowledge, skills, and perspectives required for using educational technology in teaching mathematics at the elementary and middle school levels. Participants have hands-on experiences with technology.

MATH 460 Technology in Mathematics Instruction

3c-0l-3cr

Prerequisite: [COSC 110](#), junior status

Laboratory based and designed to provide preservice mathematics teachers with expertise in instructional technology for teaching mathematics at the secondary level. A strong emphasis is placed upon the integration of pedagogy and subject matter knowledge. Open to secondary mathematics education majors only and must be taken within two semesters prior to student teaching.

MATH 465 Topics in Statistics

3c-0l-3cr

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-0l-3cr

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-0l-3cr

Prerequisite: [MATH 272](#) with a grade of C or better

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.

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MATH 477 Abstract Algebra II

3c-0l-3cr

Prerequisite: [MATH 476](#)

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-1cr

Prerequisite: 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-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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-1-3cr

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

var-1-3cr

MATH 493 Internship in Mathematics

var-3-12cr

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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Study Abroad and Comparative Literature (FNLG) (Foreign Language)

College of Humanities and Social Sciences

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

FNLG 100 Study Abroad
FNLG 121 Humanities Literature
FNLG 391 Selected Works from the Medieval Period
FNLG 392 Renaissance/Baroque/Classical
FNLG 393 Romanticism
FNLG 394 Nineteenth-Century European Novel in Translation
FNLG 395 Selected Writers from Twentieth-Century Europe
FNLG 396 The Literature of Emerging Nations
FNLG 421 Language and Society
FNLG 482 Independent Study

FNLG 100 Study Abroad

var-1-12cr

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-0l-3cr

Introduces 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 [ENGL 121](#).

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FNLG 391 Selected Works from the Medieval Period

3c-0l-3cr

Prerequisites: [ENGL/FNLG 121](#) or [ENGL 122, 202](#)

A comparative study of selected works of major importance per se and as representative of major themes of medieval European literature. Also listed as [ENGL 391](#).

FNLG 392 Renaissance/Baroque/Classical

3c-0l-3cr

Prerequisites: [ENGL/FNLG 121](#) or [ENGL 122, 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. Wolfelin's *Renaissance and Baroque*.

FNLG 393 Romanticism

3c-0l-3cr

Prerequisites: [ENGL/FNLG 121](#) or [ENGL 122](#), [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 [ENGL 393](#).

FNLG 394 Nineteenth-Century European Novel in Translation

3c-01-3cr

Prerequisites: [ENGL/FNLG 121](#) or [ENGL 122](#), [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](#).

FNLG 395 Selected Writers from Twentieth-Century Europe

3c-01-3cr

Prerequisites: [ENGL/FNLG 121](#) or [ENGL 122](#), [202](#)

A comparative study of selected works of major importance per se or as representatives of major trends in twentieth-century literature. Also listed as [ENGL 395](#).

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FNLG 396 The Literature of Emerging Nations

3c-01-3cr

Prerequisites: [ENGL/FNLG 121](#) or [ENGL 122](#), [202](#)

A comparative study of a selection of literature written in major European languages but originating in the nations of the developing world. Works are 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 [ENGL 396](#).

FNLG 421 Language and Society

3c-01-3cr

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.

FNLG 482 Independent Study

var-1-3cr

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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Philosophy (PHIL)

Department of Philosophy
College of Humanities and Social Sciences

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

PHIL 101 Informal Logic: Methods of Critical Thinking	PHIL 400 Ethics and Public Policy
PHIL 120 Introduction to Philosophy	PHIL 405 Justice and Human Rights
PHIL 221 Symbolic Logic I	PHIL 410 Contemporary Analytic Philosophy
PHIL 222 Ethics	PHIL 420 Metaphysics
PHIL 223 Philosophy of Art	PHIL 421 Theory of Knowledge
PHIL 232 Philosophical Perspectives on Love, Marriage, and Divorce	PHIL 450 Philosophy of Law
PHIL 281 Special Topics	PHIL 460 Philosophy of Language
PHIL 321 Symbolic Logic II	PHIL 480 Honors Seminar in Philosophy
PHIL 323 Political Philosophy	PHIL 481 Special Topics
PHIL 324 Ancient Philosophy	PHIL 482 Independent Study
PHIL 325 Modern Philosophy	PHIL 483 Honors Thesis
PHIL 326 Phenomenology and Existentialism	PHIL 493 Internship in Philosophy
PHIL 330 Philosophy of Science	

PHIL 101 Informal Logic: Methods of Critical Thinking

3c-0l-3cr
Develops 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-0l-3cr
Acquaints the beginning student with philosophical problems and methods in such areas as metaphysics, epistemology, logic, and value theory.

PHIL 221 Symbolic Logic I

3c-0l-3cr
An introduction to fundamental concepts in deductive logic with an emphasis on teaching 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.

PHIL 222 Ethics

3c-0l-3cr
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-0l-3cr

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-0l-3cr

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-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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-0l-3cr

Prerequisite: [PHIL 221](#)

Reviews sentential and predicate logic as presented in PHIL 221. Metalogical results concerning relations between derivability and entailment are studied in detail. Techniques and results important for mathematics computer science are highlighted. May explore modal logic or nonclassical sentential logics.

PHIL 323 Political Philosophy

3c-0l-3cr

An inquiry into the philosophical concepts underlying the major political theories from ancient Greece to the modern era. Emphasizes 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.

PHIL 324 Ancient Philosophy

3c-0l-3cr

Explores the foundations of Western Philosophy through examination of important philosophers of the Ancient period, such as the Pre-Socratic philosophers, Socrates, Plato, and Aristotle. Topics may include the nature of the physical universe, Plato's theory of Forms, the nature of happiness, and the possibility of morality.

PHIL 325 Modern Philosophy

3c-0l-3cr

A study of exemplary philosophical texts from the late sixteenth through the late eighteenth century. Figures may include Descartes, Hobbes, Locke, Spinoza, Berkeley, Leibniz, Hume, and Kant. Explores such topics as the nature of matter and mind, the possibility and limits of knowledge, and the emerging scientific challenge to church and ancient authority.

PHIL 326 Phenomenology and Existentialism

3c-0l-3cr

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 Ricoeur 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

3c-0l-3cr

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-0l-3cr

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 vary from semester to semester. See current schedule of classes.

PHIL 405 Justice and Human Rights

3c-0l-3cr

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 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).

PHIL 410 Contemporary Analytic Philosophy

3c-0l-3cr

Examines Anglo-American philosophy from the early twentieth century onward. Explores early attempts to solve traditional philosophical problems with newly developed methods of logical and linguistic analysis, and also later challenges to such attempts. Authors may include Frege, Russell, Moore, Wittgenstein, Ayer, Austin, Quine, Davidson, Strawson, and Sellars.

PHIL 420 Metaphysics

3c-0l-3cr

Explores the nature of reality through investigation of such concepts as substance, cause, freedom, and God. Draws on both historical and contemporary writings. Other topics may include the nature of space and time, the role of language in comprehending reality, the possibility of non-sensory knowledge, and the nature of possibility and necessity.

PHIL 421 Theory of Knowledge

3c-0l-3cr

Examines various views concerning the nature of knowledge, belief, and justification. Readings drawn from a wide range of historical and contemporary authors. Additional topics may include perceptual knowledge, common sense, skepticism, and the relation between a knower and the community.

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PHIL 450 Philosophy of Law

3c-0l-3cr

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-0l-3cr

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 480 Honors Seminar in Philosophy

3c-0l-3cr

Prerequisites: Philosophy honors students or instructor permission

Provides an advanced forum for detailed exploration of a single topic or single author, subject to instructor's choice. Enrollment limited to students designated as candidates for honors, to members of the Honors College who satisfy any additional prerequisites set by instructor, and other Philosophy majors by invitation or permission.

PHIL 481 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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.

PHIL 482 Independent Study

var-1-6cr

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 6cr. (This option is available to both philosophy majors and nonmajors.)

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PHIL 483 Honors Thesis

var-1-6cr

Prerequisites: Admission to departmental honors program; prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office

An intensive, focused study involving independent research culminating in a written thesis approved by a thesis director and two faculty readers/committee members. May be taken more than once to a maximum of 6sh.

PHIL 493 Internship in Philosophy

var-3-6cr

Prerequisites: Permission of the department, junior or senior PHIL major or double major, 2.5 GPA

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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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Religious Studies (RLST)

Department of Religious Studies
College of Humanities and Social Sciences

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

RLST 100 Introduction to Religion	RLST 360 African Religions
RLST 110 World Religions	RLST 365 Native North American Religions
RLST 114 Biblical Hebrew I	RLST 370 Religions of China and Japan
RLST 164 Biblical Hebrew II	RLST 373 Advanced Studies in Buddhism
RLST 200 Religion and Culture: Their Interaction	RLST 375 Religions of India
RLST 210 World Scriptures	RLST 380 Islam
RLST 220 Buddhist Thought and Practice	RLST 410 Early Christian Thought
RLST 245 Women and Religion	RLST 440 Modern Christian Thought
RLST 250 Understanding the Bible	RLST 480 Seminar in Religious Studies
RLST 260 American Religious Development	RLST 481 Special Topics
RLST 281 Special Topics	RLST 482 Independent Study
RLST 290 Christianity	RLST 482 Independent Study: Honors
RLST 311 Eastern Philosophy	RLST 483 Honors Thesis
RLST 312 Archaeology and the Bible	RLST 485 Selected Topics in Feminist Studies of Religion
RLST 329 Philosophy of Religion	RLST 493 Internship in Religious Studies
RLST 345 Women in the Bible	

RLST 100 Introduction to Religion

3c-0l-3cr

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-0l-3cr

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 114 Biblical Hebrew I

3c-0l-3cr

Enables students to read the prose of Biblical Hebrew or Classical Hebrew—that is, the major language in which the Hebrew Bible/Old Testament was written during the first millennium B.C.E. By learning the fundamentals of Biblical Hebrew grammar and vocabulary, students thus acquire the tools and skill to do translation of this important ancient text for themselves. (Also offered as [CRLG 114](#); may not be taken for duplicate credit)

RLST 164 Biblical Hebrew II

3c-0l-3cr

Prerequisite: [RLST/CRLG 114](#)

A continuation of Biblical Hebrew I with the same objective: to enable students to read the prose of Biblical Hebrew or Classical Hebrew. By learning the fundamentals of Biblical Hebrew grammar and vocabulary, students thus acquire the tools and skill to do translation of this important ancient text for themselves. (Also offered as [CRLG 164](#); may not be taken for duplicate credit)

RLST 200 Religion and Culture: Their Interaction

3c-01-3cr

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-01-3cr

Major sacred writings of Hindu, Buddhist, Zoroastrian, Moslem, Confucian, Taoist, and Judeo-Christian traditions are studied from point of view of their religious significance.

RLST 220 Buddhist Thought and Practice

3c-01-3cr

Explores the history, teachings, and practices of the main schools of Buddhism. Considers the tradition both as it has developed in Asia as well as its modifications as it has been introduced into Western societies.

RLST 245 Women and Religion

3c-01-3cr

Prerequisite: [RLST 110](#) or instructor permission

Examines women's roles and experiences within some of the world's major religious traditions, both past and present. In exploring patterns and instances of the empowerment and oppression of women, the course pays careful attention to feminist critiques.

RLST 250 Understanding the Bible

3c-01-3cr

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-01-3cr

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.

RLST 281 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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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RLST 290 Christianity

3c-01-3cr

A study of the beliefs, practices, significant persons, history, and cultural impact of Christianity.

RLST 311 Eastern Philosophy

3c-01-3cr

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.

RLST 312 Archaeology and the Bible

3c-01-3cr

An investigation of religion-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-01-3cr

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.

RLST 345 Women in the Bible

3c-01-3cr

Prerequisite: One Religious Studies or Women's Studies course or instructor permission

Surveys and examines the stories and issues concerning women in the Bible and introduces the questions and methods of research that the contemporary world and feminist biblical scholars bring to them.

RLST 360 African Religions

3c-01-3cr

An examination of the nature of African traditional religion and how traditional religion, Islam, and Christianity coexist and influence each other.

RLST 365 Native North American Religions

3c-01-3cr

An introduction to the indigenous religions of North America and to the peoples who practice these rich and varied approaches to the sacred. 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.

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RLST 370 Religions of China and Japan

3c-01-3cr

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 373 Advanced Studies in Buddhism

3c-01-3cr

Prerequisite: [RLST 110](#) or [210](#) or [220](#) or instructor permission

Explores in depth a particular aspect of the history, teachings, or practices of Buddhism. In certain semesters, focuses on how the tradition has evolved in a particular country, such as India, Sri Lanka, Thailand, Tibet, China, or Japan. In other semesters, explores the development of one particular school of the tradition, such as Pure Land or Zen Buddhism. Yet, other semesters will consider a specific topic, such as Buddhist scriptures, ethics, or ritual.

RLST 375 Religions of India

3c-01-3cr

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.

RLST 380 Islam

3c-01-3cr

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-01-3cr

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-01-3cr

An examination of Christian thought, approached through in-depth study of selected writings from major theologians of the nineteenth and twentieth centuries.

RLST 480 Seminar in Religious Studies

3c-0l-3cr

Prerequisite: RLST students or instructor permission

An advanced forum for detailed exploration of a single topic or single author, subject to instructor's choice. Enrollment limited to RLST majors and other students by invitation or permission.

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RLST 481 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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.

RLST 482 Independent Study

var-1-6cr

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 credit. All programs of study must be accepted by the department as a whole. May be taken more than once to maximum of 6cr. (This option is available to both RLST majors and nonmajors.)

RLST 482 Independent Study: Honors

3c-0l-3cr

Prerequisites: 3.00 GPA, 15cr in RLST, and 3.20 GPA in departmental courses

Majors in RLST are invited to take 3cr of independent study-designated Honors Project. Upon satisfactory completion, graduation with departmental honors is possible.

RLST 483 Honors Thesis

var-1-6cr

Prerequisites: Admission to departmental honors program; prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office

An intensive, focused study involving independent research culminating in a written thesis approved by a thesis director and two faculty readers/committee members. May be taken more than once to a maximum of 6sh.

RLST 485 Selected Topics in Feminist Studies of Religion

3c-0l-3cr

Prerequisite: One Religious Studies or Women's Studies course or instructor permission

Offers rotating topics in feminist studies in religion by alternating professors in the Department of Religious Studies. Such topics may include: "Contemporary Feminist Spirituality Movements," "Goddesses in the Ancient Near East," "Feminist Biblical Scholars and Theologians," and "Women in Buddhism."

RLST 493 Internship in Religious Studies

6-12cr

Prerequisites: Junior or senior; RLST major or double major; 2.5 GPA 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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Art History (ARHI)

Department of Art
College of Fine Arts

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

ARHI 100 Arts of the Twentieth Century	ARHI 410 Nineteenth-Century European Painting
ARHI 101 Introduction to Art	ARHI 411 Twentieth-Century European Art
ARHI 205 Ancient to Medieval Art	ARHI 412 Classical Art
ARHI 207 Renaissance through Modern Art	ARHI 413 Senior Seminar
ARHI 222 Art in America	ARHI 416 Northern Renaissance Art
ARHI 224 Introduction to Asian Art	ARHI 417 Byzantine Art
ARHI 281 Special Topics	ARHI 418 African Art
ARHI 300 Native American Art	ARHI 423 Art of Japan
ARHI 407 Medieval Art	ARHI 425 Arts of China
ARHI 408 Italian Renaissance Art	ARHI 481 Special Topics
ARHI 409 Baroque and Rococo Art	ARHI 482 Independent Study

ARHI 100 Arts of the Twentieth Century

3c-0l-3cr

Prerequisite: Art majors and minors only

A study of art in the U.S. during 1900-1960 in light of historical events and in the broader context of political, philosophical, religious, and social developments, including women and underrepresented groups as subjects, creators, and patrons of the arts. An introductory course for incoming art majors. Primary focus on painting, photography, and film. (Offered as ART 100 prior to 2003-04)

ARHI 101 Introduction to Art

3c-0l-3cr

Introduces the student to the significance of art as related to contemporary living and our historical heritage.

ARHI 205 Ancient to Medieval Art

3c-0l-3cr

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 207 Renaissance through Modern Art

3c-0l-3cr

Studies art from the Renaissance through the Modern periods in western Europe in light of historical events and in the broader context of political, philosophical, religious, and social developments, including women and underrepresented groups as subjects, creators, and patrons of the arts. Issues of exoticism, Orientalism, and colonialism are discussed.

ARHI 222 Art in America

3c-0l-3cr

Surveys American art and its relation to the development of American ideas and ideals.

ARHI 224 Introduction to Asian Art

3c-01-3cr

Surveys a selection of art and architectural forms from China, Japan, India, Korea, and Southeast Asia. Students are introduced to religious and secular sculpture, painting, and ceramics, as well as the philosophical, political, and social forces that prompted their creation.

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ARHI 281 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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-01-3cr

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.

ARHI 407 Medieval Art

3c-01-3cr

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-01-3cr

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-01-3cr

A general survey of art from 1575 to 1775, includes architecture, sculpture, painting, and other arts. Dual listed for graduate credit as ARHI 509.

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ARHI 410 Nineteenth-Century European Painting

3c-01-3cr

Prerequisite: Junior standing or instructor permission

Surveys the history of Western painting from the late eighteenth century to the turn of the twentieth. The styles and movements covered range from neo-classicism to romanticism, realism, the Pre-Raphaelite painters, impressionism, symbolism, and post-impressionism. French painting is most heavily represented. Activities include lecture mixed with discussion of readings, debates about issues, practice in “reading” images, and others.

ARHI 411 Twentieth-Century European Art

3c-01-3cr

Studies twentieth-century painting, sculpture, photography, and film in France, Germany, and Italy in light of historical events and in the broader context of political, philosophical, religious, and social developments, including women and underrepresented groups as subjects, creators, and patrons of the arts.

ARHI 412 Classical Art

3c-01-3cr

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.

ARHI 413 Senior Seminar

3c-01-3cr

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-01-3cr

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.

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ARHI 417 Byzantine Art

3c-01-3cr

Prerequisite: [ARHI 205](#) or instructor permission

Investigates the art and architecture produced in the Byzantine Empire, with a concentration on the years between 324, the year Constantine founded Constantinople, and 1453, the date the Turks conquered the city. Consisting of lectures, discussions, videos, and field trips, the course emphasizes cross-cultural contacts between Byzantium, Islam, and the West.

ARHI 418 African Art

3c-01-3cr

Explores the aesthetics and meanings of African Art through a historically and culturally based survey of art from selected African cultures. Examples of sculptures, masks, and other ritual objects, tools and utilitarian objects, clothing, jewelry and adornment, painting, and architecture from across the continent are studied. Philosophical and religious beliefs, socioeconomic, historical, and political forces are examined as to how they have impacted the creation of art in traditional and contemporary Africa. Connections between the visual arts and the other fine arts are an integral part of the study as well.

ARHI 423 Art of Japan

3c-01-3cr

Introduces the history and aesthetics of Japanese art, from antiquity to the present. Lectures focus on major works of painting, sculpture, architecture, prints, ceramics, and other works from antiquity to the present. Close attention is paid to their historical contexts and underlying themes. These include religious influences, the imperial court, the tea ceremony, and modern life. The interaction of Japan with its neighbors is also considered.

ARHI 425 Arts of China

3c-01-3cr

Surveys art selected from the five millennia of Chinese art and culture. Examines sculpture, architecture, and painting from the Neolithic period through the twentieth century. Issues of religion, patronage, and popular culture are included.

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ARHI 481 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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.

ARHI 482 Independent Study

var-1-3cr

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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Dance (DANC)

Department of Theater and Dance
College of Fine Arts

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

DANC 102 Introduction to Dance	DANC 290 Ethnic Dance
DANC 150 Fundamentals of Dance	DANC 351 Choreography
DANC 250 Beginning Modern Dance	DANC 353 Dance Curriculum and Instruction
DANC 260 Beginning Jazz Dance	DANC 355 Dance Production: Administration to Creation
DANC 270 Beginning Ballroom and Tap Dance	DANC 481 Special Topics
DANC 280 Beginning Ballet	DANC 482 Independent Study
DANC 281 Special Topics	DANC 485 Dance Studio

DANC 102 Introduction to Dance

3c-0l-3cr

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.

DANC 150 Fundamentals of Dance

3c-0l-3cr

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.

DANC 250 Beginning Modern Dance

3c-0l-3cr

Beginning modern dance technique. An introduction to the beginning elements of the choreographic process. Examines the historical development and cultural influences on the changing philosophies of modern dance performance. Performance of creative work required. (Titled Contemporary Dance prior to 2005-06)

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DANC 260 Beginning Jazz Dance

3c-0l-3cr

Beginning jazz technique, dynamics, and selected styles that reflect an era or culture characteristic of jazz movement and music from the 1920s through the present. An introduction to the beginning elements of the choreographic process. Performance of creative work required. (Titled Jazz Dance prior to 2005-06)

DANC 270 Beginning Ballroom and Tap Dance

3c-0l-3cr

A sequential development of beginning tap and ballroom dance techniques in the context of the historical development and period styles. Performance of creative work is required. (Titled Ballroom and Tap Dance prior to 2005-06)

DANC 280 Beginning Ballet

3c-0l-3cr

A sequential development of beginning barre and center techniques that progress to link movement phrasing into dance sequences and

choreography. The historical periods of development and the status of the art today are examined in a cultural context, which includes gender and minority influences. Performance of creative work is required. (Titled Ballet prior to 2005-06)

DANC 281 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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.

DANC 290 Ethnic Dance

3c-01-3cr

Includes dance techniques from a variety of indigenous forms from Western and Eastern cultures. Presented in the historical and social context. An emphasis is given to the needs of theater production.

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DANC 351 Choreography

3c-01-3cr

Prerequisite: Three of the following introductory- or advanced-level dance classes: [DANC 250](#), [260](#), [270](#), [280](#), [290](#), [485](#), or by instructor permission

Introduces the necessary choreographic tools needed to manipulate dance as a medium to create dance works. Students 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.

DANC 353 Dance Curriculum and Instruction

3c-01-3cr

Prerequisite: Three of the following introductory- or advanced-level dance classes: [DANC 250](#), [260](#), [270](#), [280](#), [290](#), [485](#), or by instructor permission

Introduces the necessary teaching skills and curriculum development needed to understand the pedagogical structure for teaching dance. Students learn the approaches to teaching that are unique to dance and will learn to design dance curriculum.

DANC 355 Dance Production: Administration to Creation

3c-01-3cr

Prerequisites: Two of the following introductory- or advanced-level dance classes: [DANC 250](#), [260](#), [270](#), [280](#), [290](#), [485](#), or by instructor permission

A sequential development of the dance production process from audition to opening, focusing on the practical application to private studio and academic and professional settings. Explores the evolution of dance production and the future of dance, from both administrative and artistic perspectives, taking into consideration the constantly changing world of technology.

DANC 481 Special Topics

var-1-6cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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.

DANC 482 Independent Study

var-1-6cr

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office

Independent study in dance 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 6cr. Approval is based on academic appropriateness and availability of resources.

DANC 485 Dance Studio

3c-01-3cr

Prerequisite: [DANC 250](#), [260](#), [270](#), or [280](#) (beginning technique class taken must be the specific dance genre of the Dance Studio class offered); or by instructor permission

Further 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.

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Music History (MUHI)

Department of Music
College of Fine Arts

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

MUHI 101 Introduction to Music	MUHI 324 The Classical Era
MUHI 102 Survey of Music Literature	MUHI 325 The Romantic Era
MUHI 281 Special Topics	MUHI 420 The Twentieth Century
MUHI 301 Music History I	MUHI 421 American Music
MUHI 302 Music History II	MUHI 481 Special Topics
MUHI 322 Medieval and Renaissance Music	MUHI 482 Independent Study
MUHI 323 The Baroque Era	

MUHI 101 Introduction to Music

3c-0l-3cr

Presumes no technical background (for nonmajors) 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 102 Survey of Music Literature

3c-0l-3cr

Prerequisite: Music major or permission from instructor

Surveys a broad spectrum of music literature and analysis. An introduction to a listening knowledge of a select body of music for diverse performing media, representing the historical time period of western art music as well as many nonwestern musical traditions including jazz and world music. For music majors and others who have a substantial knowledge of music.

MUHI 281 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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.

MUHI 301 Music History I

3c-0l-3cr

Prerequisites: [ENGL 101](#), [202](#), [HIST 195](#), [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-0l-3cr

Prerequisite: [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.

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MUHI 322 Medieval and Renaissance Music

3c-0l-3cr

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.

MUHI 323 The Baroque Era

3c-0l-3cr

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-0l-3cr

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-0l-3cr

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.

MUHI 420 The Twentieth Century

3c-0l-3cr

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-0l-3cr

Prerequisites: [MUHI 301](#), [302](#)

A study of history and literature of music in America from 1600 to the present day.

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MUHI 481 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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.

MUHI 482 Independent Study

var-1-3cr

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 (THTR)

Department of Theater and Dance
College of Fine Arts

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

THTR 101 Introduction to Theater	THTR 322 Costume Design
THTR 111 Foundations of Theater	THTR 323 Sound Design
THTR 116 Fundamentals of Theatrical Design	THTR 324 Advanced Stagecraft
THTR 120 Stagecraft	THTR 340 Acting II
THTR 122 Costume Workshop	THTR 341 Acting Styles
THTR 130 Stage Voice	THTR 342 Acting Shakespeare
THTR 131 Stage Movement	THTR 345 Touring Young People's Theater
THTR 205 Classic Theater I	THTR 347 Playwriting
THTR 206 Classic Theater II	THTR 350 Directing
THTR 207 Modern Theater I	THTR 481 Special Topics
THTR 208 Modern Theater II	THTR 482 Independent Study
THTR 221 Basic Stage Lighting	THTR 483 Honors Thesis
THTR 223 Makeup for the Stage	THTR 484 Directing Studio
THTR 240 Acting I	THTR 486 Practicum in Production
THTR 281 Special Topics	THTR 487 Acting Studio
THTR 310 Theater Criticism	THTR 489 Technical Theater Problems
THTR 320 Scene Design	THTR 493 Internship
THTR 321 Stage Lighting Design	

THTR 101 Introduction to Theater

3c-0l-3cr

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 111 Foundations of Theater

3c-0l-3cr

A primary course for those engaged in theater and any other performance-related area so as to define the nature of theater art, develop one's own individual system of analysis, and finally acquire an understanding of process, dramatic structure, composition, genre, theatrical styles, and a theory of performance.

THTR 116 Fundamentals of Theatrical Design

3c-0l-3cr

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

3c-0l-3cr

An exploration of the material, methods, and procedures utilized in creating a scenic environment. Through instruction and practical applications, students learn the basis of scenic construction and develop competency with the basic materials and equipment used in a theatrical scenery shop.

THTR 122 Costume Workshop

3c-0l-3cr

Instruction and practical experience in the process of building costumes for the stage. Activities include fitting, cutting, sewing, dyeing, and painting. Also gives instruction in the maintenance of wardrobe, costume stock, materials, and properties.

THTR 130 Stage Voice

3c-0l-3cr

Prerequisite: Theater majors only or instructor permission

Instruction in basic development of the vocal instrument of the actor in stage performance. Emphasizes resonance, quality, pitch, and projection of the voice while improving the student's ability to articulate.

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THTR 131 Stage Movement

3c-0l-3cr

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 205 Classic Theater I

3c-0l-3cr

Prerequisite: [HIST 195](#)

A comprehensive survey of western theater from its origins to the beginning of the Italian Renaissance. Includes the study of significant plays of the period as well as the influence of playwrights, directors, actors, designers, and theorists of the era.

THTR 206 Classic Theater II

3c-0l-3cr

Prerequisite: [HIST 195](#)

A comprehensive survey of western theater from the Italian Renaissance to the end of the eighteenth century. Includes the study of significant plays of the period as well as the influence of playwrights, directors, actors, designers, and theorists of the era.

THTR 207 Modern Theater I

3c-0l-3cr

Prerequisite: [HIST 195](#)

A comprehensive survey of western theater from the time after the French Revolution to the outbreak of the First World War. Includes the study of significant plays of the period as well as the influence of playwrights, directors, actors, designers, and theorists of the era.

THTR 208 Modern Theater II

3c-0l-3cr

Prerequisite: [HIST 195](#)

A comprehensive survey of western theater from the early twentieth century to the present. Includes the study of significant plays of the period as well as the influence of playwrights, directors, actors, designers, and theorists of the era.

THTR 221 Basic Stage Lighting

3c-0l-3cr

An introduction to lighting instruments, color media, control boards, physical laws of electricity and optics, graphics, and conventional techniques used in lighting theatrical productions.

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THTR 223 Makeup for the Stage

3c-0l-3cr

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-0l-3cr

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.

THTR 281 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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 310 Theater Criticism

3c-01-3cr

Prerequisite: Junior or senior Theater major status or permission

Gives students of theater an opportunity to use what they have learned in the areas of theater (acting, directing, design, and playwriting) toward the critical process of responding to theater productions. Examines differences between theater criticism and theater reviews while learning to write critical responses to live performances both on and off campus.

THTR 320 Scene Design

3c-01-3cr

Prerequisite: [THTR 116](#) or permission

An introduction to scenic design that applies the fundamental principles of theatrical design. Topics include an overview of current scene design practice, design conceptualization, graphic communication methods, and a method of designing theatrical scenery. Practical applications are emphasized through a series of class exercises.

THTR 321 Stage Lighting Design

3c-01-3cr

Prerequisite: [THTR 116](#) or permission

An introduction to stage lighting that applies the fundamental principles of theatrical design. Stage lighting topics include an overview of current lighting methods and equipment, the controllable properties and functions of stage lighting, learning to see light, a creative approach to stage lighting, and design graphics. Practical applications are emphasized through a series of class exercises.

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THTR 322 Costume Design

3c-01-3cr

Prerequisite: [THTR 116](#) or permission

An introduction to the discipline of costume design for the theater with an emphasis on script analysis, figure drawing, character definition, and control of the design elements, supplemented by an overview of costume history.

THTR 323 Sound Design

3c-01-3cr

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 324 Advanced Stagecraft

3c-01-3cr

Prerequisites: [THTR 120](#) and [221](#), or permission

An advanced exploration of materials, methods, and procedures involved in operating a scenery studio and theater facility. Receive intensive practical experience in technical problem solving, studio planning, and project supervision. (Offered as THTR 220 prior to 2003-04)

THTR 340 Acting II

3c-01-3cr

Prerequisite: [THTR 240](#)

A continuation of the study of Stanislavski system, focusing on his primary texts, towards a development of individual student techniques. Emphasizes scene study through applying techniques to scene rehearsal and role problems and exploring the relationships between psychological states, physical action, and truth in acting.

THTR 341 Acting Styles

3c-01-3cr

Prerequisites: [THTR 130/131](#), [240](#) or instructor permission

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.

THTR 342 Acting Shakespeare

3c-0l-3cr

Prerequisites: [THTR 240](#), [340](#) or instructor permission

An advanced acting studio which prepares 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.

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THTR 345 Touring Young People's Theater

3c-0l-3cr

Introduces the fundamentals of young people's theater for audiences aged five through fifteen years. Class members select appropriate children's literature, develop a script through improvisation, and rehearse and tour their production to the surrounding schools.

THTR 347 Playwriting

3c-0l-3cr

Prerequisite: [THTR 111](#) or instructor permission

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 is 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.

THTR 350 Directing

3c-0l-3cr

Prerequisites: [THTR 111](#), [240](#), or instructor permission

An introduction to basic directing skills: casting, floor plans, blocking, rehearsal procedures, and the applications of scene and character analysis. Prepare short scenes for class presentation.

THTR 481 Special Topics

var-1-6cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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-1-6cr

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 6cr. Approval is based on academic appropriateness and availability of resources.

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THTR 483 Honors Thesis

var-1-6cr

Prerequisites: Admission to departmental honors program; prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office

An intensive, focused study involving independent research culminating in a written thesis approved by a thesis director and two faculty readers/committee members. May be taken more than once to a maximum of 6sh.

THTR 484 Directing Studio

3c-2l-3cr

Prerequisites: [THTR 350](#) or instructor 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 486 Practicum in Production

var-0-3cr

Prerequisite: Theater major standing or instructor permission

An opportunity with academic credit to make significant contributions to campus productions augmenting theater coursework in the areas of directing, acting, stage management, technical direction, design (sound, set, lights, costumes, makeup), properties, scenic construction and scenic art painting, costume technology, dance, and running crews. Repeatable course required of all theater majors for a minimum of six semesters, one of which must be a final project for senior majors.

THTR 487 Acting Studio

3c-2l-3cr

Prerequisites: Minimum of [THTR 240](#) or instructor 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. (Offered as THTR 483 prior to 2003-04)

THTR 489 Technical Theater Problems

3c-0l-3cr

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-3-12cr

Prerequisite: Instructor permission

Opportunities for students to gain experience with professional performance organizations in areas related to theater and dance.

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Biology (BIOL)

Department of Biology
College of Natural Sciences and Mathematics

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

BIOL 103 General Biology I	BIOL 310 Applied Entomology and Zoonoses
BIOL 104 General Biology II	BIOL 323 Introduction to Toxicology and Risk Assessment
BIOL 105 Cell Biology	BIOL 331 Animal Developmental Biology
BIOL 111 Principles of Biology I	BIOL 352 Comparative Animal Physiology
BIOL 112 Principles of Biology II	BIOL 362 Ecology
BIOL 113 Genetics in Modern Society	BIOL 363 Medical Microbiology
BIOL 114 Environmental Science	BIOL 364 Immunology
BIOL 115 Biotic Diversity of North America	BIOL 401 Laboratory Methods in Biology and Biotechnology
BIOL 116 Introduction to Marine Biology	BIOL 405 Biology of the Cell
BIOL 117 Understanding HIV Biology and AIDS	BIOL 410 Molecular Biology Topics
BIOL 118 The History of Pain	BIOL 425 Herpetology
BIOL 119 Emerging Diseases	BIOL 450 Pymatuning: Field Studies
BIOL 123 Perspectives in Cell and Molecular Biology	BIOL 453 Plant Physiology
BIOL 150 Human Anatomy	BIOL 455 Animal Behavior
BIOL 151 Human Physiology	BIOL 456 Ecological Toxicology
BIOL 155 Human Physiology and Anatomy	BIOL 460 Fundamentals of Environmental Epidemiology
BIOL 210 Botany	BIOL 463 Limnology
BIOL 220 General Zoology	BIOL 466 Principles of Virology
BIOL 241 General Microbiology	BIOL 471 Dendrology of the Eastern U.S.
BIOL 242 Comparative Vertebrate Anatomy	BIOL 475 Mammalogy
BIOL 250 Principles of Microbiology	BIOL 476 Parasitology
BIOL 251 Field Botany	BIOL 477 Neurobiology
BIOL 252 Field Zoology	BIOL 480 Biology Seminar
BIOL 261 Ornithology	BIOL 481 Special Topics
BIOL 262 General Entomology	BIOL 482 Independent Study
BIOL 263 Genetics	BIOL 483 Honors Thesis/Independent Study
BIOL 271 Evolution	BIOL 484 Honors Seminar
BIOL 272 Conservation of Plant and Animal Resources	BIOL 490 Field Studies in Biology
BIOL 281 Special Topics	BIOL 493 Biology Internship

BIOL 103 General Biology I

3c-2l-4cr

Prerequisite: Non-Biology majors only

A basic introduction to ecology, biochemistry, and cell biology, genetics, and evolution.

BIOL 104 General Biology II

3c-2l-4cr

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-0l-3cr

Prerequisite: Non-Biology majors only

Introduces concepts and applications for understanding human biological function from the point of view of cellular biology.

BIOL 111 Principles of Biology I

3c-3l-4cr

Prerequisite: Must be taken after or concurrent with [CHEM 111](#)

Introduces 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-3l-4cr

Prerequisite: [BIOL 111](#)

Introduces the 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.

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BIOL 113 Genetics in Modern Society

3c-0l-3cr

Prerequisite: Non-Biology majors and non-Biology minors only

Intended primarily to provide the student with an appreciation and comprehension of the field of genetics as it applies to the human condition.

Introduces the topic of human heredity as a means to understand genetic disorders, genetic therapies, and alternative reproductive strategies.

Provides an introductory background of the field of genetics and current biotechnology related to genetics, which is suitable for nonmajors. Using this background, the student is presented with the most recent events in the field of human genetics and its effect on society.

BIOL 114 Environmental Science

3c-0l-3cr

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 learn basic principles in ecology as the basis for understanding problems of the environment.

BIOL 115 Biotic Diversity of North America

3c-0l-3cr

Prerequisite: 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 are examined with regard to plant forms, animal composition, and environmental (abiotic) conditions.

BIOL 116 Introduction to Marine Biology

3c-0l-3cr

Prerequisite: Non-Biology and non-Biology Education majors and non-Biology minors only

An introduction to the world of marine biology. Includes 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.

BIOL 117 Understanding HIV Biology and AIDS

3c-0l-3cr

An introduction to the AIDS virus in which the mode of infection, transmission, and prevention will be used as an illustration of biological principles. Profiles biological indicators for HIV disease and its progression to AIDS. Therapeutic and nontherapeutic approaches to treat HIV infections are emphasized.

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BIOL 118 The History of Pain

3c-0l-3cr

Prerequisite: Non-Biology majors, non-Biology Education majors, and non-Biology minors only

Despite its many individual, social, and cultural characteristics, pain is based on an anatomical and physiological foundation. Looks at the history of scientific theories and hypotheses about understanding the pain mechanism. Through this type of study, students learn about the status of pain in various societies throughout the ages.

BIOL 119 Emerging Diseases

3c-0l-3cr

Prerequisite: Non-Biology majors and non-Biology minors only

Intended primarily to provide an understanding of the biological basis of infectious diseases and the social, historical, and ethical consequences of these types of afflictions. Covers background material such as the germ theory of disease and the cell theory at an introductory level. Includes specific cases of emerging or reemerging infectious diseases with emphasis on current events relating to disease outbreaks.

BIOL 123 Perspectives in Cell and Molecular Biology

1c-0l-1cr

Prerequisite: [BIOL 111](#)

Designed for those interested in entering the Cell and Molecular Biology Track. Introduces the latest advances in the fields of molecular biology and biotechnology, as well as the career possibilities and professional responsibilities in these fields. Designed to aid students in clarifying career goals and introduce them to the literature of molecular biology, including electronic resources. Includes field trips that might take place on weekends.

BIOL 150 Human Anatomy

2c-3l-3cr

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-4cr

Prerequisites: [BIOL 103](#), or [105](#), [111](#), or [HPED 221](#), or instructor permission. Non-Biology majors and controlled elective for Biology majors

The study of the mechanisms but with the human organism functions. Mechanisms covered range from the molecular/subcellular to the tissue, organ, and organism levels. Organ systems examined include the nervous, muscular, cardiovascular, respiratory, endocrine, renal, digestive, and reproductive. Emphasizes three major themes: 1) that organ functions are dependent upon the underlying molecular and cellular processes, 2) that all organ systems utilize biological control systems to maintain organ homeostasis, and 3) that each organ function is closely controlled and dependent upon the interaction/integration with functions from other organ systems.

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BIOL 155 Human Physiology and Anatomy

3c-3l-4cr

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. Emphasizes normal function, with particular attention to functional anatomy, control mechanisms, and interrelationships among systems. Laboratory studies include experimentation and dissection. For students with little or no science background.

BIOL 210 Botany

2c-3l-3cr

Prerequisites: [BIOL 111-112](#) or instructor permission

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-3cr

Prerequisites: [BIOL 111-112](#) or instructor permission

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 241 General Microbiology

2c-3l-3cr

Prerequisites: Non-Biology majors only (Environmental Health Science, Nursing, and Respiratory Therapy majors), [BIOL 105](#), [CHEM 101](#), or equivalent

A study of microorganisms and the role they play in water, soil, food, and infection. Microbes and disease are emphasized. Standard methods and techniques are emphasized in laboratory.

BIOL 242 Comparative Vertebrate Anatomy

2c-3l-3cr

Prerequisites: [BIOL 220](#)

An investigation of the comparative structure and function of the vertebrate body emphasizing 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 includes both lecture and laboratory experiences.

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BIOL 250 Principles of Microbiology

2c-3l-3cr

Prerequisites: [BIOL 111-112](#) or instructor permission

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. Designed for Biology and Biology Education majors.

BIOL 251 Field Botany

2c-3l-3cr

Prerequisite: [BIOL 210](#)

The collection, preservation, identification, and distribution of selected herbaceous and woody plants of Western Pennsylvania. Emphasizes taxonomic principles, the use of keys and manuals, and the recognition of local flora.

BIOL 252 Field Zoology

2c-3l-3cr

Prerequisite: [BIOL 220](#)

Field natural history of vertebrates; identification, collection, and preservation techniques.

BIOL 261 Ornithology

2c-3l-3cr

Prerequisites: [BIOL 111-112](#) or [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-3l-3cr

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.

BIOL 263 Genetics

2c-3l-3cr

Prerequisite: [BIOL 111](#)

Deals with the distribution and function of the hereditary material; special emphasis on microbial, viral, and molecular genetics.

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BIOL 271 Evolution

3c-0l-3cr

Prerequisites: [BIOL 111-112](#) or [103-104](#), [263](#)

Historical development of evolutionary thought; evidence and operational mechanisms involved; origin and phylogenetic relationships of biological groups.

BIOL 272 Conservation of Plant and Animal Resources

2c-3l-3cr

Prerequisites: [BIOL 111-112](#) or [103-104](#)

A study of accepted practices in soil, water, forest, and wildlife conservation. Saturday field trips.

BIOL 281 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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.

BIOL 310 Applied Entomology and Zoonoses

2c-3l-3cr

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; pesticing equipment; application of biological and other measures of control. (Also offered as [ENVH 310](#); may not be taken for duplicate credit)

BIOL 323 Introduction to Toxicology and Risk Assessment

3c-0l-3cr

Prerequisites: [BIOL 104](#) or [112](#); [CHEM 102](#) or [112](#); or permission

A study of uptake, distribution, metabolism, and excretion of environmental chemicals; mechanisms of their toxicity; and their effects on major organ systems. Knowledge of these topics is applied to risk assessment procedures. (Also offered as [ENVH 323](#); may not be taken for duplicate credit)

BIOL 331 Animal Developmental Biology

2c-3l-3cr

Prerequisite: [BIOL 220](#) or 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 352 Comparative Animal Physiology

2c-3l-3cr

Prerequisites: [BIOL 220](#), [CHEM 231](#)

A comparative study of homeostatic mechanisms and systems in animals and their relation to fundamental chemical and physical events in cells.

BIOL 362 Ecology

2c-3l-3cr

Prerequisites: [BIOL 111-112](#), [BIOL 210](#) or [220](#)

A study of interrelations and adaptations of organisms; includes consideration of physical and biotic environmental factors. Field trips.

BIOL 363 Medical Microbiology

2c-3l-3cr

Prerequisite: [BIOL 250](#) or permission

A study of disease caused by microorganisms with an emphasis on human pathogens. Both epidemiology and aspects of host-parasite relationships are discussed. Lab stresses methods of isolation and identification of pathogens.

BIOL 364 Immunology

2c-3l-3cr

Prerequisites: [BIOL 250](#), [CHEM 232](#), or 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-3cr

Prerequisite: [CHEM 351](#)

Theory and practice in a number of major analytical and preparative techniques currently in use in physiology, molecular biology, and biotechnology.

BIOL 405 Biology of the Cell

2c-3l-3cr

Prerequisites: [BIOL 111](#), [CHEM 231](#), or instructor permission

Introduces the cellular and modular mechanisms by which individual cells grow, receive and respond to internal and external signals, and move. Discusses the latest advances in the discipline; students will be expected to utilize current literature on their own as a means of building critical thinking skills. The student-centered laboratory portion emphasizes individual and group activities.

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BIOL 410 Molecular Biology Topics

3c-0l-3cr

Prerequisite: [BIOL 263](#) or [BIOC 301](#) or [CHEM 351](#)

Involves the study of biological phenomena in molecular terms. Focuses on recombinant DNA principles as they relate to prokaryotes and eukaryotes. Emphasizes the modern methods used in recombinant DNA technology.

BIOL 425 Herpetology

2c-3l-3cr

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 on the herpetofauna of Pennsylvania.

BIOL 450 Pymatuning: Field Studies

var-3cr

During the summer session, various field courses are offered through the Pymatuning Laboratory of Ecology. The offerings 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 is available from the Biology Department in the spring.

BIOL 453 Plant Physiology

2c-3l-3cr

Prerequisites: [BIOL 210](#), [CHEM 231](#)

Studies physiological processes occurring in plants considered in relation to growth, development, and ecology of plants.

BIOL 455 Animal Behavior

3c-0l-3cr

Prerequisite: [BIOL 220](#) or permission

The biological study of animal behavior. Topics include the mechanisms, development, ecology, and evolution of behavior.

BIOL 456 Ecological Toxicology

2c-3l-3cr

Prerequisites: [BIOL 112](#), [CHEM 112](#)

A study of the impact of chemical pollutants and other stresses on nonhuman biological systems from the subcellular to ecosystem levels. An ecological risk assessment will be conducted in the field and laboratory settings. (Also offered as [ENVH 456](#); may not be taken for duplicate credit.)

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BIOL 460 Fundamentals of Environmental Epidemiology

3c-0l-3cr

Prerequisites: [BIOL 104](#) or [112](#); [MATH 216](#) or [217](#); or instructor permission

A study of the health consequences of involuntary exposure to harmful chemical and biological agents in the general environment. Disease etiology, occurrence, and intervention in human populations are examined through epidemiologic study using analytical methods and applications. (Also offered as [ENVH 460](#); may not be taken for duplicate credit)

BIOL 463 Limnology

2c-3l-3cr

Prerequisite: [BIOL 362](#)

An investigation into the physical, chemical, and biological aspects of inland waters and their interrelationships. In the laboratory the student gains 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-0l-3cr

Prerequisite: [BIOL 263](#) or equivalent course in Genetics, or [CHEM 351](#) or equivalent course in Biochemistry, or instructor permission
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.

BIOL 471 Dendrology of the Eastern U.S.

2c-3l-3cr

Prerequisite: [BIOL 210](#) or instructor permission

A comprehensive survey of the tree species in the eastern portion of North America with an emphasis on Pennsylvania forests.

BIOL 475 Mammalogy

2c-3l-3cr

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-3l-3cr

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.

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BIOL 477 Neurobiology

3c-0l-3cr

Prerequisites: [BIOL 111](#) or [105](#), or [151](#), or [PSYC 350](#) or instructor permission

Presents the underlying mechanisms through which the nervous system mediates behavior, from the molecular to the organismal level. Emphasizes two major themes: 1) the roles of synapses and neuronal excitability in shaping the input/output functions of neurons and neuronal networks and 2) the role of neuronal development and neuronal experience upon resultant neuronal organization.

BIOL 480 Biology Seminar

1c-0l-1cr

A discussion of recent trends in biological thought and research. Students report on assigned readings and/or personal research.

BIOL 481 Special Topics

var-1-3cr

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-1-3cr

Prerequisites: Prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office. A 2.5 cumulative GPA and in major courses is 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.

BIOL 483 Honors Thesis/Independent Study

var-1-6cr

Prerequisites: Admission to departmental honors program; prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office

An intensive, focused study involving independent research culminating in a written thesis approved by a thesis director and two faculty readers/committee members. May be taken more than once to a maximum of 6sh.

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BIOL 484 Honors Seminar

2c-0l-2cr

Prerequisite: Admission to the Biology Honors Program

Selected topics in biology. Use of the literature in preparation for advanced coursework and [BIOL 483](#). Analyzes the literature, develops a

literature review, and develops a thesis proposal. Guest speakers provide additional exposure to major areas of biology.

BIOL 490 Field Studies in Biology

var-var-1-4cr

Prerequisites: Specific prerequisites, as are appropriate to the course, will be set by individual instructors, instructor permission
Various specialized field courses instructed by biologists from IUP. Explores the rich diversity and ecology of the flora and fauna that inhabit specialized regions of Pennsylvania, the United States, or other countries. Emphasizes ecology, behavior, and natural history of organisms in their natural surroundings. Must meet travel and living expenses. May be taken more than once for credit and grade if course content is different.

BIOL 493 Biology Internship

var-3-12cr

Prerequisites: Biology major with at least 57cr, 2.5 cumulative GPA, 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 6cr may be applied toward major; total number of credits is decided in consultation involving student, his/her advisor, and director of internships.

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Chemistry (CHEM)

Department of Chemistry
College of Natural Sciences and Mathematics

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

CHEM 101 College Chemistry I	CHEM 335 Advanced Organic Chemistry
CHEM 102 College Chemistry II	CHEM 340 Physical Chemistry for the Biological Sciences
CHEM 111 General Chemistry I	CHEM 341 Physical Chemistry I
CHEM 112 General Chemistry II	CHEM 342 Physical Chemistry II
CHEM 113 Concepts in Chemistry I	CHEM 343 Physical Chemistry Laboratory I
CHEM 114 Concepts in Chemistry II	CHEM 344 Physical Chemistry Laboratory II
CHEM 116 Basic Inorganic Chemistry	CHEM 351 Biochemistry
CHEM 214 Intermediate Inorganic Chemistry	CHEM 410 Advanced Inorganic Chemistry Laboratory
CHEM 231 Organic Chemistry I	CHEM 411 Advanced Inorganic Chemistry
CHEM 232 Organic Chemistry II	CHEM 412 Advanced Structural and Synthetic Methods in Inorganic Chemistry
CHEM 255 Biochemistry and Nutrition	CHEM 421 Advanced Instrumental Analysis
CHEM 281 Special Topics	CHEM 441 Advanced Physical Chemistry
CHEM 301 Introduction to Chemical Research	CHEM 481 Special Topics
CHEM 321 Quantitative Analysis	CHEM 482 Independent Study
CHEM 322 Instrumental Analysis	CHEM 493 Internship in Chemistry
CHEM 323 Analytical Methods	CHEM 498 Problems in Chemistry
CHEM 331 Organic Molecular Structure Determination	CHEM 499 Problems in Chemistry Education

CHEM 101 College Chemistry I

3c-2l-4cr

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-2l-4cr

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-3l-4cr

A lecture-discussion of principles of chemistry, including theory and applications. The lab illustrates principles discussed. Discusses scientific measurements, simple definitions and concepts, the mole, stoichiometry, gas laws, electronic structure of the atom, bonding, thermochemistry, and descriptive chemistry of the elements.

CHEM 112 General Chemistry II

3c-3l-4cr

Prerequisite: [CHEM 111](#)

A continuation of General Chemistry I. Discusses 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 I

3c-3l-4cr

An introductory course for Chemistry majors. The first half of a two-semester sequence designed to provide the foundation of knowledge and laboratory techniques required to successfully complete a chemistry degree program. Topics include atomic theory, an introduction to chemical reactions, stoichiometry, thermochemistry, chemical bonding, and molecular geometry, transition metal complexes, polymers, and biomolecules.

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CHEM 114 Concepts in Chemistry II

3c-3l-4cr

Prerequisite: [CHEM 111](#) or [113](#)

An introductory course for chemistry majors. The second half of a two-semester sequence designed to provide the foundation of knowledge and laboratory techniques required to successfully complete a chemistry degree program. Topics include kinetic-molecular theory of gases, the liquid and the solid states, solution theory, kinetics, equilibrium, thermodynamics, acids and bases, and electrochemistry.

CHEM 116 Basic Inorganic Chemistry

3c-3l-2cr

Prerequisites: [CHEM 111](#) and [112](#)

Required for chemistry majors who have taken [CHEM 111](#) and [112](#). A systematic study of the chemistry of the elements is presented in both the lecture and the laboratory. Also includes the chemistry of coordination compounds. Starts at the beginning of the second half of the spring semester and is taught concurrently with [CHEM 114](#).

CHEM 214 Intermediate Inorganic Chemistry

1c-3l-2cr

Prerequisite: [CHEM 112](#) or [114](#)

Presents the characteristic reactions and compounds of elements from across the periodic table. For the main-group elements, both discrete molecular compounds and nonmolecular materials are discussed. For the alkali, transition and inner-transition metals, the focus is on nonmolecular species such as ionic compounds, ceramics, superconductors, and other inorganic-based materials. Also presents the solid-state structure of inorganic-based materials. Uses laboratory activities to reinforce concepts presented in lecture and to stimulate interest through discovery-based exercises.

CHEM 231 Organic Chemistry I

3c-4l-4cr

Prerequisite: [CHEM 112](#) or [114](#)

A study of compounds of carbon, with a special emphasis on structure-reactivity relationships. Laboratory work emphasizes methods of separation and purification of organic compounds.

CHEM 232 Organic Chemistry II

3c-4l-4cr

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-0l-3cr

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-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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 Introduction to Chemical Research

1c-01-1cr

A discussion of current technical literature and current research problems of faculty members. Lectures by outside chemists and student presentations are included. Open to junior or senior chemistry majors and to others by chairperson permission. (Titled Chemistry Seminar prior to 2003-04)

CHEM 321 Quantitative Analysis

3c-41-4cr

Prerequisite: [CHEM 112](#) or [114](#)

Theory and practice of quantitative analysis, including gravimetric and volumetric analysis; a special emphasis on perfecting laboratory techniques and application of general chemical knowledge through problem solving.

CHEM 322 Instrumental Analysis

3c-41-4cr

Prerequisite: [CHEM 341](#)

Modern instrumental methods of chemical analysis. Teaches theory behind the instrument, principles of operation, interpretation of data obtained, and limitations of methods.

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CHEM 323 Analytical Methods

3c-41-4cr

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.

CHEM 331 Organic Molecular Structure Determination

4c-var-3cr

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-01-3cr

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-01-3cr

Prerequisites: [MATH 122](#) or [124](#) or 128 and [PHYS 112](#) 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.

CHEM 341 Physical Chemistry I

4c-01-4cr

Prerequisites: [MATH 122](#) or [124](#) or 128 and [PHYS 112](#) or [132](#); [CHEM 112](#) or [114](#)

Chemical thermodynamics with applications to solutions, phase, and chemical equilibria-kinetic theory.

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CHEM 342 Physical Chemistry II

3c-01-3cr

Prerequisite: [CHEM 341](#)

A study of solids, liquids, surfaces, chemical kinetics, electrochemistry, atomic and molecular structure.

CHEM 343 Physical Chemistry Laboratory I

0c-3l-1cr

Prerequisites: [CHEM 321](#), [341](#)

Experiments illustrating application of fundamental laws to actual systems. (Writing-intensive course)

CHEM 344 Physical Chemistry Laboratory II

0c-3l-1cr

Prerequisites: [CHEM 342](#), [343](#)

An extension of Physical Chemistry Laboratory I; experiments related to chemical kinetics, molecular spectroscopy, and other topics of physical chemistry.

CHEM 351 Biochemistry

4c-0l-4cr

Prerequisite: [CHEM 231](#)

A study of chemistry and biological functions of carbohydrates, lipids, proteins, minerals, vitamins, and hormones.

CHEM 410 Advanced Inorganic Chemistry Laboratory

0c-3l-1cr

Prerequisite: [CHEM 322](#)

A laboratory course in which the techniques used in the synthesis and characterization of inorganic compounds are explored. Emphasizes 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-0l-3cr

Prerequisite: [CHEM 341](#)

A study of advanced principles of inorganic chemistry including atomic structure, symmetry, advanced bonding theories, acids and bases, coordination chemistry, and organometallic chemistry.

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CHEM 412 Advanced Structural and Synthetic Methods in Inorganic Chemistry

2c-2l-3cr

Prerequisites: [CHEM 411](#) and either [410](#) or [322](#)

Advanced techniques used in the synthesis and characterization of inorganic compounds are explored. In lecture, an emphasis is on the theory and application of structural and spectroscopic methods of characterization. In lab, an emphasis is on advanced methods of synthesis and structural characterization using representative examples of important classes of inorganic compounds.

CHEM 421 Advanced Instrumental Analysis

4c-var-3cr

Prerequisite: [CHEM 322](#)

A study of modern chemical analysis, using advanced instrumental techniques; emphasis is on theory, principles of operation, capabilities, and limitations of advanced analytical instruments used.

CHEM 441 Advanced Physical Chemistry

3c-0l-3cr

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-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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-1-3cr

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-4-9cr

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 works closely with the student and preceptor and assumes responsibility for making the final evaluation and assigning a grade.

CHEM 498 Problems in Chemistry

var-1-2cr

Prerequisite: [CHEM 231](#) and permission of chairperson

A course of supervised undergraduate research, in conjunction with a faculty member in the chemistry department.

CHEM 499 Problems in Chemistry Education

var-1sh

Prerequisite: Chemistry Education major; permission of chairperson

A course of independent study on selected problems in chemistry education, including library reading, lab work, and conferences with a chemistry education faculty member who is supervising the study.

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Geoscience (GEOS)

Department of Geoscience
College of Natural Sciences and Mathematics

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

GEOS 101 The Dynamic Earth	GEOS 326 Field Geology
GEOS 102 The Dynamic Earth Lab	GEOS 327 Geomorphology
GEOS 103 Oceans and Atmospheres	GEOS 330 Paleontology
GEOS 104 Oceans and Atmospheres Lab	GEOS 331 Hydrogeology
GEOS 105 Exploring the Universe	GEOS 332 Geochemistry
GEOS 106 Exploring the Universe Lab	GEOS 333 Soils and Soil Geochemistry
GEOS 111 Earth Science for Educators I	GEOS 336 Geology of the Northern Rockies
GEOS 112 Earth Science for Educators I Lab	GEOS 337 Geology of Newfoundland
GEOS 113 Earth Science for Educators II	GEOS 338 Geology of the American Southwest
GEOS 114 Earth Science for Educators II Lab	GEOS 341 Solar System
GEOS 121 Physical Geology	GEOS 342 Stellar Astronomy
GEOS 122 Physical Geology Laboratory	GEOS 350 Operation of the Planetarium
GEOS 123 Applied Mathematics in the Geosciences	GEOS 361 Physical Oceanography
GEOS 131 Historical Geology	GEOS 362 Plate Tectonics
GEOS 132 Historical Geology Laboratory	GEOS 371 Meteorology I
GEOS 141 Introduction to Ocean Science	GEOS 380 Research Methods in the Geosciences
GEOS 150 Geology of National Parks	GEOS 411 Sedimentary Petrology
GEOS 151 The Age of Dinosaurs	GEOS 412 Stratigraphy
GEOS 220 Mineralogy	GEOS 440 Subsurface Geology
GEOS 221 Physical Resources of the Earth	GEOS 441 Carbonate Geology—Florida
GEOS 226 Forensic Geology	GEOS 480 Geoscience Seminar
GEOS 281 Special Topics	GEOS 481 Special Topics
GEOS 310 Environmental Geology	GEOS 482 Independent Study
GEOS 320 Igneous and Metamorphic Petrology	GEOS 493 Geoscience Internship
GEOS 325 Structural Geology	

GEOS 101 The Dynamic Earth

3c-0l-3cr

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-2l-1cr

Prerequisite: No Geoscience majors/minors

Corequisite: [GEOS 101](#)

Introduces 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-0l-3cr

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.

GEOS 104 Oceans and Atmospheres Lab

0c-2l-1cr

Prerequisite: No Geoscience majors/minors

Corequisite: [GEOS 103](#)

Introduces 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.

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GEOS 105 Exploring the Universe

3c-0l-3cr

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-2l-1cr

Prerequisite: No Geoscience majors/minors

Corequisite: [GEOS 105](#)

Introduces 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 are held at night.

GEOS 111 Earth Science for Educators I

3c-0l-3cr

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-3l-1cr

Prerequisite: Natural Science/Science Education majors only

Corequisite: [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-0l-3cr

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-3l-1cr

Prerequisite: Natural Science/Science Education majors only

Corequisite: [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-0l-3cr

Corequisite: [GEOS 122](#)

A semi-quantitative introduction to the earth sciences, including the physical properties of the earth's interior and crust, plate tectonics, surface processes, and the complex geologic interactions that shape and modify our planet. Designed to prepare students for upper-level coursework in geology, physical geography, and anthropology.

GEOS 122 Physical Geology Laboratory

0c-3l-1cr

Corequisite: [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 coursework in geology, physical geography, and anthropology. Includes field trips.

GEOS 123 Applied Mathematics in the Geosciences

1c-0l-1cr

Corequisite: Concurrent enrollment in [MATH 121](#) or [123](#), or instructor permission

For Geoscience majors enrolled in either [MATH 121](#) or [123](#). Applications of the calculus to problems in geochemistry and geophysics. Topics involve Geoscience applications of limits, differentiation, Taylor series, exponential functions, integration, and advanced topics.

GEOS 131 Historical Geology

3c-0l-3cr

Prerequisites: [GEOS 121-122](#)**Corequisite:** [GEOS 132](#)

An introduction to the history of Earth, including the fossil record and the history of biologic evolution. Topics also include the growth and tectonic interactions of oceans and continents and the physical evolution of the earth's atmosphere, lithosphere, and hydrosphere. Designed to prepare majors and minors for upper-level geology classes.

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GEOS 132 Historical Geology Laboratory

0c-3l-1cr

Prerequisites: [GEOS 121-122](#)**Corequisite:** [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-0l-3cr

Introduces 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.

GEOS 150 Geology of National Parks

3c-0l-3cr

Studies 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-0l-3cr

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 220 Mineralogy

2c-3l-3cr

Prerequisite: [GEOS 121](#)**Prerequisite or Corequisite:** [CHEM 111](#) or [113](#), or instructor permission

An introduction to crystallography, crystal chemistry, optical properties, and mineral associations and phase equilibria. Emphasizes minerals

pertinent to geology, Earth resources, and technology. Laboratory topics emphasize mineral identification in hand specimen, use of the petrographic microscope, and x-ray diffraction techniques. Includes field trips, which may occur on weekends.

GEOS 221 Physical Resources of the Earth

3c-01-3cr

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 226 Forensic Geology

3c-01-3cr

Prerequisite: No Geoscience majors or minors.

An introduction to the use of geological information in criminal investigation. Emphasizes the use of geochemistry, geochronology, geophysics, and soil characteristics in tracing the origins and history of criminal evidence as well as the development of new techniques for authenticating artifacts and art.

GEOS 281 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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-31-3cr

Prerequisite: 8cr 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 320 Igneous and Metamorphic Petrology

2c-31-3cr

Prerequisites: [GEOS 131](#) and 321, or instructor permission

An introduction to the origin and evolution of igneous and metamorphic rocks based upon a plate tectonic framework. Topics include the evolution of Earth, the Moon, Mars, and other terrestrial planetary objects. Planetary evolution is examined through analysis of phase equilibria and the physics of magma transport. Laboratory topics emphasize quantitative methods in petrology and the identification and interpretation of rocks and rock textures in hand specimen and thin section. Includes field trips, which may occur on weekends.

GEOS 325 Structural Geology

2c-31-3cr

Prerequisites: [GEOS 131](#) and [132-133](#) or instructor permission

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-31-3cr

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-31-3cr

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-3cr

Prerequisite: [GEOS 131](#) or instructor permission

A study of the morphology, evolution, geologic significance, and paleoecology of fossil organisms. Includes field trips which may occur on weekends.

GEOS 331 Hydrogeology

2c-3l-3cr

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.

GEOS 332 Geochemistry

2c-3l-3cr

Prerequisites: [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 333 Soils and Soil Geochemistry

2c-3l-3cr

Prerequisite: GEOS 220

An introduction to the formation, classification, and geochemistry of soils. Emphasizes geology, climate, hydrology, and plant-soil interactions to investigate soil evolution and fertility, nutrient dynamics, and the role of soils in the global carbon cycle. Laboratory topics include assessment of soil structure, mineralogy, chemistry, and fertility as well as quantitative treatment of carbon cycling in soils. Includes field trips which may occur on weekends.

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GEOS 336 Geology of the Northern Rockies

var-3cr

Prerequisite: Instructor permission required; at least 14cr 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, taught in the Summer only)

GEOS 337 Geology of Newfoundland

var-3cr

Prerequisite: Instructor permission required; at least 14cr 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, taught in the Summer only)

GEOS 338 Geology of the American Southwest

var-3cr

Prerequisite: Instructor permission required; at least 14cr 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. (Three weeks, taught in Summer only)

GEOS 341 Solar System

2c-3l-3cr

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-3l-3cr

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.

GEOS 350 Operation of the Planetarium

var-1cr

Prerequisites: GEOS 110, [341](#), [342](#), or instructor permission

Acquaints students with methods of operation and repair of a Spitz A-3-P planetarium. Includes topics suitable for lectures to various age groups.

Students write and present a demonstration program. Meets once a week with occasional evening observations.

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GEOS 361 Physical Oceanography

2c-3l-3cr

Prerequisites: [MATH 121](#) and [PHYS 111](#) or instructor permission

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-3l-3cr

Prerequisites: [PHYS 111-112](#) and a minimum of 20cr 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.

GEOS 371 Meteorology I

2c-3l-3cr

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 Methods in the Geosciences

2c-0l-2cr

Prerequisites: 75cr or instructor permission

For students enrolled in all majors within the Geoscience Department. Students learn the methods of research in the geosciences by working on a project of their choosing. Students define a problem, propose several hypotheses, collect data, and perform a quantitative analysis to test their hypotheses and propose a solution. Final results are submitted in professional manuscript form. As preparation, students examine various geoscience problems and data sets through the semester. Cannot be taken subsequent to [GEOS 480](#).

GEOS 411 Sedimentary Petrology

2c-3l-3cr

Prerequisite: GEOS 321 or instructor permission

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-3l-3cr

Prerequisite: [GEOS 411](#) or instructor permission

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-3cr

Prerequisite: Minimum 20cr 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-3cr

Prerequisite: 17cr geology courses or written instructor permission

Two to three weeks of field study in Florida Keys. Conducted from base camp in Florida Keys and consists 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-1cr

Prerequisites: [GEOS 380](#), senior standing

For seniors majoring in some aspect of geoscience. The seminar 1) provides 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.

GEOS 481 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

The department's intention is to use this course to schedule extended field trips and for teaching special courses which utilizes the specialties of the Geoscience faculty.

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GEOS 482 Independent Study

var-1-3cr

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-1-12cr

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 credits 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 3cr may be applied toward major.

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Physics (PHYS)

Department of Physics
College of Natural Sciences and Mathematics

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

PHYS 100 Prelude to Physics	PHYS 323 Electricity and Magnetism II
PHYS 101 Energy and Our Environment	PHYS 331 Modern Physics
PHYS 105 The Physics of Light and Sound	PHYS 342 Thermal and Statistical Physics
PHYS 111 Physics I Lecture	PHYS 345 Optics
PHYS 112 Physics II Lecture	PHYS 350 Intermediate Experimental Physics I
PHYS 115 Physics I for Electro-Optics	PHYS 351 Intermediate Experimental Physics II
PHYS 116 Physics II for Electro-Optics	PHYS 352 Applied Physics Laboratory
PHYS 121 Physics I Lab	PHYS 353 Solid State Electronics Laboratory
PHYS 122 Physics II Lab	PHYS 355 Computer Interfacing
PHYS 131 Physics I-C Lecture	PHYS 399 Cooperative Education II
PHYS 132 Physics II-C Lecture	PHYS 432 Advanced Electronics
PHYS 141 Physics I-C Lab	PHYS 472 Nuclear Physics
PHYS 142 Physics II-C Lab	PHYS 473 Quantum Mechanics I
PHYS 151 Medical Physics Lecture	PHYS 475 Physics of Semiconductor Devices I
PHYS 161 Medical Physics Lab	PHYS 476 Physics of Semiconductor Devices II
PHYS 222 Mechanics I	PHYS 480 Seminar
PHYS 223 Mechanics II	PHYS 481 Special Topics in Physics
PHYS 231 Electronics	PHYS 482 Independent Study in Physics
PHYS 281 Special Topics	PHYS 490 Solid State Physics
PHYS 299 Cooperative Education I	PHYS 493 Internship in Physics
PHYS 322 Electricity and Magnetism I	

PHYS 100 Prelude to Physics

3c-0l-3cr

Prerequisite: [MATH 100](#) or equivalent high school preparation

Prepares students for their first course in quantitative physics by reviewing fundamental concepts involving measurement and error, graphing, motion, and applications of Newton's Laws in developing problem-solving skills. Also presents a historical perspective as well as introduces the many opportunities that exist for those with a background in Physics.

PHYS 101 Energy and Our Environment

3c-0l-3cr

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 105 The Physics of Light and Sound

3c-0l-3cr

The study of light and sound as applied in the production of objects of art and the production of music. Includes the study of vision, light in nature, photography, and artistic media and the study of hearing, musical sound, musical instruments, and room acoustics.

PHYS 111 Physics I Lecture

3c-0l-3cr

Prerequisites: Elementary algebra and trigonometry
General college physics; mechanics, wave motion, and sound.

PHYS 112 Physics II Lecture

3c-0l-3cr

Prerequisite: [PHYS 111](#)
Electricity and magnetism, heat, light, atomic and nuclear physics, and an elementary introduction to relativity and quantum theory.

PHYS 115 Physics I for Electro-Optics

2c-3l-3cr

Prerequisite: [PHYS 100](#)

Corequisite or Prerequisite: [MATH 110](#) or [121](#)

Introduces the mechanical universe through the study of the motion of matter and waves and the causes of waves. The learning of quantitative problem solving skills is emphasized. Includes a lab component.

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PHYS 116 Physics II for Electro-Optics

Prerequisite: [PHYS 115](#)

By applying Newton's Laws of Motion to atoms and molecules, introduces the basic principles of and connections between temperature, heat, and molecular motion at a fundamental level. Concepts involved in fluid flow, electric charge, and the origin of magnetism are covered. The fundamental basis for the existence of electric and magnetic fields and the generation of electromagnetic energy as waves are explored. Includes a lab component.

PHYS 121 Physics I Lab

0c-3l-1cr

Corequisite: [PHYS 111](#)

Physics laboratory at level of Physics I; exercises in mechanics, wave motion, and sound.

PHYS 122 Physics II Lab

0c-3l-1cr

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-0l-3cr

Prerequisite: [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.

PHYS 132 Physics II-C Lecture

3c-0l-3cr

Prerequisite: [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-3l-1cr

Corequisite: [PHYS 131](#)

Physics laboratory at same level as Physics I-C; exercises in mechanics, wave motion, and sound.

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PHYS 142 Physics II-C Lab

0c-3l-1cr

Corequisite: [PHYS 132](#)

Physics laboratory at same level as Physics II-C; exercises in optics, electricity and magnetism, and radioactivity.

PHYS 151 Medical Physics Lecture

3c-0l-3cr

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-3l-1cr

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.

PHYS 222 Mechanics I

2c-0l-2cr

Prerequisites: [PHYS 112](#) or [116](#) or [132](#); [MATH 122](#) or [124](#)

Covers the basic laws and concepts of the mechanical universe. The dynamics of a particle in one, two, and three dimensions are covered. Central forces, including planetary and satellite motion, are discussed and analyzed in detail using Newton's gravitational law. Other topics covered are statics, multiple particle system dynamics, mechanical energy, and oscillations.

PHYS 223 Mechanics II

2c-0l-2cr

Prerequisites: [MATH 241](#), [PHYS 222](#)

Mechanics of a rigid body, constraints, oscillations, wave motion, introduction to Lagrangian and Hamiltonian formulation and relativistic mechanics.

PHYS 231 Electronics

3c-3l-4cr

Prerequisites: [MATH 122](#), [124](#), or 128; [PHYS 112](#) or [132](#)

Circuit theory, transients, transistor circuits, frequency response, input and output impedance, feedback and electronic noise. Operational amplifiers and digital electronics.

PHYS 281 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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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PHYS 299 Cooperative Education I

var-1-3cr

Prerequisites: [PHYS 132](#); completion of 30cr with a minimum 2.0 GPA and approval of the cooperative education coordinator

Blends classroom theory with practical application through job-related experience. Students 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. The participant must be a full-time IUP 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.

PHYS 322 Electricity and Magnetism I

2c-0l-2cr

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-0l-2cr

Prerequisite: [PHYS 322](#)

Time-dependent form of Maxwell equations, electromagnetic induction, vector potential, magnetism, radiation fields, and Poynting vector.

PHYS 331 Modern Physics

3c-0l-3cr

Prerequisite: [PHYS 112](#) or [116](#) or [132](#); [MATH 122](#) or [124](#)

The history of modern physics is covered. Particle and wave properties of matter are explored using the ideas of quantum mechanics. Systems examined using the ideas of quantum and classical mechanics are atomic structure, solid state, and nuclear physics. The special theory of relativity will also be covered. Some of the problems are solved using computers.

PHYS 342 Thermal and Statistical Physics

3c-0l-3cr

Prerequisites: [MATH 122](#), [124](#), or 128; [PHYS 112](#) or [132](#)

Thermometry, laws of thermodynamics, low-temperature physics, entropy, properties of ideal gas, and an introduction to statistical mechanics.

PHYS 345 Optics

3c-0l-3cr

Prerequisites: [MATH 122](#), [124](#), or 128; [PHYS 112](#) or [132](#)

Geometrical optics and physical optics; including interference, diffraction, and polarization. Quantum optics is introduced. (Offered as PHYS 242 prior to 2005-06)

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PHYS 350 Intermediate Experimental Physics I

0c-6l-3cr

Prerequisites: [PHYS 331](#); [PHYS 242](#) or [EOPT 120](#)

Performs required fundamental experiments in areas of mechanics, optics, modern physics, and heat. Speaking before other classmates and faculty and competence in writing scientific papers and reports is emphasized. Effectiveness in the collection of data is important. Computers will often be utilized to perform data taking and analysis.

PHYS 351 Intermediate Experimental Physics II

0c-6l-3cr

Prerequisite: [PHYS 350](#)

Increasingly sophisticated experiments in essential areas of physics. Digital computers and the Van de Graaff are available.

PHYS 352 Applied Physics Laboratory

0c-6l-3cr

Prerequisites: [PHYS 231](#), [355](#), or instructor permission

An introduction to much of the fundamental equipment used in industry. Trains students in the operation and proper use of this equipment through a series of experiments that teach signal detection and analysis including data acquisition by computer. Provides instruction on the proper methods to be used for various oral and written presentations.

PHYS 353 Solid State Electronics Laboratory

0c-6l-3cr

Prerequisite: [PHYS 352](#) or instructor permission

Encounters a number of areas of current interest in semiconductor technology. Student performs experiments and learns skills in such areas as device process simulation, device simulation, measurements of semiconductor materials, and measurement of device parameters. Also covers proper presentation of written and oral reports.

PHYS 355 Computer Interfacing

2c-2l-3cr

Prerequisite: [COSC 110](#)

Teaches the fundamentals of interfacing the personal computer to its physical surroundings. Teaches how to collect data and to control experiments in real time. Shows how to use digital to analog conversion (DAC) techniques and analog to digital conversion (ADC) techniques. A graphical software package (such as LabVIEW) is also used to design icon-based interfacing tools, to learn how to use virtual instruments, and to analyze data.

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PHYS 399 Cooperative Education II

var-1-3cr

Prerequisites: [PHYS 299](#); [350](#); completion of 80cr with a minimum 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 3cr of PHYS 299, 399, and/or 493 may be used in fulfilling Physics major course requirements.

PHYS 432 Advanced Electronics

2c-3l-3cr

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-0l-3cr

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-0l-4cr

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.

PHYS 475 Physics of Semiconductor Devices I

3c-0l-3cr

Prerequisites: [PHYS 231](#), [242](#), [342](#), or instructor permission

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-0l-3cr

Prerequisite: [PHYS 475](#) or instructor permission

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.

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PHYS 480 Seminar

var-1cr

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.

PHYS 481 Special Topics in Physics

var-1-3cr

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-1-6cr

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-0l-3cr

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.

PHYS 493 Internship in Physics

var-1-3cr

Prerequisites: [PHYS 350](#), completion of 90cr with a minimum 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 3cr 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 (SCI)

College of Natural Sciences and Mathematics

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

SCI 101 Fundamentals of Physics	SCI 106 Physical Science II
SCI 102 Fundamentals of Chemistry	SCI 201 Great Ideas in Science
SCI 103 Fundamentals of Earth and Space Science	SCI 281 Special Topics
SCI 104 Fundamentals of Environmental Biology	SCI 481 Special Topics
SCI 105 Physical Science I	SCI 482 Independent Study

SCI 101 Fundamentals of Physics

2c-2l-2.5cr

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 everyday experiences. Does not fulfill the Liberal Studies requirement except for majors in Elementary Education and Early Childhood Education/PreK-Grade 6.

SCI 102 Fundamentals of Chemistry

2c-2l-2.5cr

Prerequisite: Elementary Education major or instructor permission

A survey of chemical principles and concepts. The nature of chemical reactions as applied to technology and their applications to society. The world of consumer chemistry is 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 are included. Does not fulfill the Liberal Studies requirement except for majors in Elementary Education and Early Childhood Education/PreK-Grade 6.

SCI 103 Fundamentals of Earth and Space Science

2c-2l-2.5cr

Prerequisites: [SCI 101](#), [102](#)

An introduction to geology, astronomy, oceanography, and meteorology for Elementary Education majors. Emphasizes 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 subjects, maps, and field trips, which may occur during class times, nights, and weekends. Does not fulfill the Liberal Studies requirement except for majors in Elementary Education and Early Childhood Education/PreK-Grade 6.

SCI 104 Fundamentals of Environmental Biology

2c-2l-2.5cr

Prerequisites: [SCI 101](#), [102](#)

A basic introduction to the major concepts and principles of ecology and their application to modern living for majors in Elementary Education and Early Childhood Education/PreK-Grade 6.

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SCI 105 Physical Science I

3c-2l-4cr

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-21-4cr

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.

SCI 201 Great Ideas in Science

3c-01-3cr

Prerequisites: No majors in Physics, Chemistry, Geoscience, Biology, Biochemistry or Natural Science

Introduces the great ideas in the fields of Physics, Chemistry, Geoscience, and Biology at a level designed to deepen students' understanding of the natural world around them and allow them to address intelligently those public issues that are based on science.

SCI 281 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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-1-3cr

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 (ANTH)

Department of Anthropology
College of Humanities and Social Sciences

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

ANTH 110 Contemporary Anthropology	ANTH 340 Anthropology of Aging
ANTH 211 Cultural Anthropology	ANTH 350 Anthropology of Women
ANTH 213 World Archaeology	ANTH 360 Applied Anthropology
ANTH 222 Biological Anthropology	ANTH 365 Native North American Religions
ANTH 233 Language and Culture	ANTH 370 Latinos and Disaporas
ANTH 244 Basic Archaeology	ANTH 401 Social and Cultural Change
ANTH 271 Cultural Area Studies: Africa	ANTH 415 Cultural Resource Management
ANTH 272 Cultural Area Studies: China	ANTH 420 Cultural Ecology
ANTH 273 Cultural Area Studies: Southeast Asia	ANTH 425 Archaeological Theory and Research Design
ANTH 274 Cultural Area Studies: Latin America	ANTH 430 Anthropology of Food
ANTH 281 Special Topics	ANTH 444 Medical Anthropology
ANTH 286 Marriage, Kinship, and the Family	ANTH 456 Field Research Methods
ANTH 314 Native Americans	ANTH 460 Ethnographic Field School
ANTH 315 North American Archaeology	ANTH 480 Anthropology Seminar
ANTH 316 Anthropology of Religion	ANTH 482 Independent Study
ANTH 318 Museum Methods	ANTH 483 Honors Thesis
ANTH 320 Archaeological Field School	ANTH 484 Specialized Methods in Archaeology
ANTH 323 Mesoamerican Archaeology	ANTH 485 Anthropological Study Odyssey
ANTH 325 Archaeological Lab Methods	ANTH 493 Internship in Anthropology

ANTH 110 Contemporary Anthropology

3c-0l-3cr

An introduction to the nature of anthropological inquiry. By using the anthropological perspective, current relevant topics are 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-0l-3cr

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-0l-3cr

A survey of the prehistory of Western and non-Western cultures with an 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.

ANTH 222 Biological Anthropology

3c-0l-3cr

An introduction to the goals and techniques of biological anthropology with an 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-0l-3cr

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-0l-3cr

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-0l-3cr

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-0l-3sh

Assists in developing an understanding of contemporary China. While the course begins with prehistoric and historic aspects of China, the focus is on contemporary issues presented in the context of anthropological theory. Specific Chinese cultural components 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-0l-3cr

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.)

ANTH 274 Cultural Area Studies: Latin America

3c-0l-3cr

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-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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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ANTH 286 Marriage, Kinship, and the Family

3c-0l-3cr

A sociological and anthropological study of patterns of marriage, kinship, and family life, emphasizing the relationship between family patterns and other social institutions. Topics 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.)

ANTH 314 Native Americans

3c-0l-3cr

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-0l-3cr

Prerequisite: [ANTH 110](#) or [244](#) or permission of the instructor

A survey of North American prehistory with an emphasis on cultural ecology and technology. Attention is given to all geographic areas north of Mexico, but the focus is on the Eastern Woodlands.

ANTH 316 Anthropology of Religion

3c-0l-3cr

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 318 Museum Methods

3c-0l-3cr

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-6cr

Prerequisites: [ANTH 110](#), [244](#), or instructor permission

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.

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ANTH 323 Mesoamerican Archaeology

3c-0l-3cr

An introduction to the archaeology of Mesoamerica which explores the natural and cultural diversity of the area south of the United States and north of lower Central America. Surveys the history of archaeological research in Mesoamerica and examines some of the specific methods of archaeological research that are unique to Mesoamerican archaeology. The focus is on three areas: the Gulf Coast and the Olmecs, The Valley of Mexico and its long history of settlement from the Tehuacan Valley through the Aztecs, and the southern Highlands and Lowlands inhabited by the Maya, although other regions of Mesoamerica will also be discussed.

ANTH 325 Archaeological Lab Methods

3c-0l-3cr

Prerequisite: [ANTH 244](#)

A hands-on introduction to the study of artifacts and other cultural materials recovered from archaeological excavations. Experience in the specific methods of analysis in archaeological lab settings focusing on the analysis of stone artifacts, pre-Columbian ceramics, and historic artifacts. Analytic techniques include classification, quantification of attributes, and reporting of the results of the analyses.

ANTH 340 Anthropology of Aging

3c-0l-3cr

Introduces 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 are stressed.

ANTH 350 Anthropology of Women

3c-0l-3cr

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 cross-culturally, 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.

ANTH 360 Applied Anthropology

3c-01-3cr

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.

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ANTH 365 Native North American Religions

3c-01-3cr

An introduction to the indigenous religions of North America and to the peoples who practice these rich and varied approaches to the sacred. Not only examines major religious themes and dimensions (myth, ritual, ethics, etc.), but also 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 370 Latinos and Diasporas

3c-01-3cr

Introduces the global and local dimensions of the changing Latino communities in the United States and examines the communities' multiple connections and dynamic interactions with Latin American diasporas. Toward this end, the course covers: 1) theories on transnational communities, diasporas, the state, and citizenship; 2) Latino cultures and geography; 3) Latin American immigration and labor migration to the United States; and 4) the impact of Latin American diasporic networks on Latino and non-Latino communities. (Cross-listed as [LAS 370](#))

ANTH 401 Social and Cultural Change

3c-01-3cr

Prerequisite: [ANTH 110](#) or [SOC 151](#)

Explores 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-01-3cr

Prerequisite: [ANTH 244](#) or instructor permission

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.

ANTH 420 Cultural Ecology

3c-01-3cr

Prerequisite: [ANTH 110](#) or [211](#)

Introduces 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.

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ANTH 425 Archaeological Theory and Research Design

3c-01-3cr

Prerequisites: [ANTH 244](#) and [325](#)

Reviews the broad range of field, analytical, and interpretive methods adopted by archaeologists over the past century and guides students through the design and implementation of a research project of their own. Discussed against the backdrop of the discipline's constantly shifting theoretical setting, this survey also prepares students for the task of critically assessing published research conducted by other archaeologists and locating such research within this dynamic theoretical landscape.

ANTH 430 Anthropology of Food

3c-01-3cr

All humans must obtain food in order to ensure their subsistence, but the ways in which we satisfy this basic physiological need are not the same for everyone. Examines how human evolutionary history influences contemporary consumption patterns. Discusses how patterns of human migration influenced the development of cuisines and how what we eat is often determined by historical patterns of colonization and contemporary

political struggles. Discusses the cultural basis for definitions of what is edible and what is prohibited. Examines patterns of food use in our culture and how science may influence our patterns in years to come.

ANTH 444 Medical Anthropology

3c-01-3cr

Prerequisite: 9cr 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. For nursing and social work students as well as social and biological sciences students.

ANTH 456 Ethnographic Research Methods

3c-01-3cr

Prerequisite: 9cr in ANTH

Provides a background in qualitative and quantitative techniques used in anthropological research. Concentrates on the ethics of research with people, formulation of hypotheses, design and use of appropriate research techniques, and data analysis. Emphasizes development of field notes, interviewing techniques, developing genealogies, and participant observation.

ANTH 460 Ethnographic Field School

6c-01-6cr

Prerequisite: [ANTH 456](#) or instructor permission

Ethnographic research training in the field. Emphasizes the application of qualitative research methods, the recording of data in research journals and the maintaining of field diaries, the categorizing and organizing of data, and the writing of research reports.

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ANTH 480 Anthropology Seminar

var-1-3cr

Prerequisite: 9cr in ANTH or permission

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 482 Independent Study

var-1-3cr

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.

ANTH 483 Honors Thesis

var-1-6cr

Prerequisites: Admission to departmental honors program; prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office

An intensive, focused study involving independent research culminating in a written thesis approved by a thesis director and two faculty readers/committee members. May be taken more than once to a maximum of 6cr.

ANTH 484 Specialized Methods in Archaeology

3c-01-3cr

Provides an opportunity to learn specialized techniques and approaches presently in use in archaeology. In any one semester, will concentrate on one of a range of possible themes, including lab methods, field methods, statistical methods, computer applications, or text-based approaches. The specific topic varies but focuses on instructing in the mechanics of the selected technique, its application to real archaeological problems, and the interpretation of the results. May appeal to students from other disciplines who wish to gain applied expertise in a topic that is relevant to their own field of study. Interested students should contact the instructor to find out which topic will be taught in any one semester.

ANTH 485 Anthropological Study Odyssey

var-3cr

Prerequisite: Instructor permission

Involves exploration of an anthropological topic such as a culture or archaeological tradition through classroom and field activities. Typically, students are exposed to the topic during several days of intensive classwork and then pursue greater understanding through travel and possibly limited fieldwork. Readings, site tours, on-site lectures by specialists, and field exercises give a chance to develop an understanding of anthropological perspectives on the topic under study as well as to provide exposure to anthropological field and analytic methods. The odyssey also is intended to allow students to experience other cultures, sites, and/or locales firsthand. May be repeated for credit under a different odyssey

title but may be used only once to meet the requirements of an Anthropology track.

ANTH 493 Internship in Anthropology

var-3-12cr

Prerequisite: Instructor permission

Offers 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 (CRIM)

Department of Criminology
College of Health and Human Services

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

CRIM 101 Crime and Justice Systems
CRIM 102 Survey of Criminology
CRIM 205 Law Enforcement and the Community
CRIM 210 Criminal Law
CRIM 215 Survey of Courts and the Criminal Justice System
CRIM 225 Survey of Corrections
CRIM 235 Survey of Juvenile Justice and Juvenile Law
CRIM 255 Law, Social Control, and Society
CRIM 281 Special Topics
CRIM 300 Theory of Complex Criminal Justice Organizations
CRIM 306 Criminological Research Methods
CRIM 321 Cybersecurity and Loss Prevention
CRIM 323 Cybersecurity and the Law
<u>CRIM 344 Terrorism</u>
CRIM 354 White Collar Crime
CRIM 374 Environmental Crime and Justice
CRIM 384 Violence and Victimology
CRIM 391 Substance Use and Abuse in Criminal Justice
CRIM 394 Crime and Delinquency Prevention
CRIM 400 Theoretical Criminology
CRIM 401 Contemporary Issues in Criminology
CRIM 403 Dilemmas in Criminology and Criminal Justice
CRIM 410 Race, Ethnicity, Social Structure, and Crime
CRIM 450 Women and Crime
CRIM 470 Comparative Study of Justice
CRIM 480 Seminar in Criminology–The Administration of Justice
CRIM 481 Special Topics in Criminology
CRIM 482 Independent Study in Criminology
CRIM 493 Internship

CRIM 101 Crime and Justice Systems

3c-0l-3cr

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 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-01-3cr

Provides an understanding of the discipline of criminology through an examination of its theories, basic assumptions, and definitions.

CRIM 205 Law Enforcement and the Community

3c-01-3cr

Prerequisites: [CRIM 101](#) and [102](#)

Introduces the history, function, and role of law enforcement in American society. The multidimensional work of policing is emphasized with particular attention to strategies employed to combat and prevent crime through computer technology and advancements in nonlethal and lethal methods. Organizational and personal factors of policing, such as work-related stress and personnel selections, also are covered, as these are intimately connected to the structure and composition of the communities serviced. Practical and critical approaches to law enforcement are undertaken to explore prevailing and dissenting perspectives on the issues covered.

CRIM 210 Criminal Law

3c-01-3cr

A study of the history and sources of criminal law coupled with an analysis of the substantive elements of specific crimes.

CRIM 215 Survey of Courts and the Criminal Justice System

3c-01-3cr

Prerequisites: [CRIM 101](#) and [102](#)

Examines the historical background, the traditions, and the legal principles that underlie the courts as an integral component of the American system of criminal justice. Both differences and similarities inherent within the state and federal court processes will be analyzed, and the procedures through which the criminal courts uphold the basic rights and liberties of all United States citizens, both victims and the accused, are explored. The dynamics of the judiciary are considered through examination of the critical foundations of the judicial process. A primary focus is placed upon understanding the respective roles played by judges, prosecuting attorneys, defense counsel, police, and probation officers and other court-related personnel in the criminal court process.

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CRIM 225 Survey of Corrections

3c-01-3cr

Prerequisites: [CRIM 101](#) and [102](#)

Introduces correctional policy and practices in the United States and emphasizes the role of corrections in the social control of human behavior. Includes the history of corrections, classic and contemporary thought about the role of corrections in the criminal justice system, and a survey of correctional methods and alternatives with an emphasis on the use of incarceration.

CRIM 235 Survey of Juvenile Justice and Juvenile Law

3c-01-3cr

Prerequisites: [CRIM 101](#) and [102](#)

Provides an understanding of the juvenile justice system and the various cases and legislative initiatives that have affected juvenile justice policy. In addition to examining the evolution of the juvenile justice system and the transformation of the juvenile court, students gain an understanding of the current issues in juvenile justice in the United States. Attention is also focused on juvenile justice policies and procedures in other countries.

CRIM 255 Law, Social Control, and Society

3c-01-3cr

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. (Offered as CRIM 357 prior to 2003-04)

CRIM 281 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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.

CRIM 300 Theory of Complex Criminal Justice Organizations

3c-01-3cr

Prerequisite: [CRIM 102](#) or instructor permission

The study of the evolution and theories of organizational alternatives and their application to the administration of justice.

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CRIM 306 Criminological Research Methods

3c-01-3cr

Prerequisite: [CRIM 102](#) or instructor permission

An introduction to the basic criminological research methods designed to prepare the student to understand and participate in quantitative and qualitative research.

CRIM 321 Cybersecurity and Loss Prevention

3c-01-3cr

Prerequisite: [CRIM 101](#) and [102](#)

Addresses the cybersecurity threat from a more comprehensive standpoint. Challenges students to recognize and understand security concerns from multiple perspectives, ranging from the insider threat to threats involving the actual physical components. Exposure to a design methodology, associated system components modules, and basic security principles is featured. Will also be exposed to the private and public responses to computer security problems, including the insider threat, domestic and foreign terrorism, and a number of unique computer crimes and solutions to deal with these crimes. The importance of a sound security policy in the overall management of any organization is addressed.

CRIM 323 Cybersecurity and the Law

3c-01-3cr

Prerequisite: [CRIM 101](#) and [102](#)

Examines the scope of cybercrime and its impact upon today's system of criminal justice. Includes cybercrime and the Bill of Rights, computer-based economic crime, electronic commerce, ethical challenges, and the Computer Fraud and Abuse Act. Includes an analysis of the legal considerations facing law enforcement and cybersecurity professionals who deal with the problem of discovering, investigating, and prosecuting cybercrime.

CRIM 344 Terrorism

3c-01-3cr

Prerequisites: [CRIM 101](#) and [102](#)

An investigation of the context, causes, correlates, consequences, and responses to the crime of terrorism from a variety of perspectives. Individual, group, and organizational factors that shape terrorism and responses to terrorism will be explored. Strategies for reducing the threat of terrorism and its consequences will be examined.

CRIM 354 White Collar Crime

3c-01-3cr

Prerequisites: [CRIM 101](#) and [102](#)

An introduction to various topics and issues relating to white-collar crime. Theories and measurements of white-collar, corporate, organizational, occupational, workplace, and organized crimes are presented and compared. Prevention, legal issues, and control strategies are presented.

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CRIM 374 Environmental Crime and Justice

3c-01-3cr

Prerequisites: [CRIM 101](#) and [102](#)

Introduces the developing area of criminological solutions to environmental problems. Issues addressed include the nature of environmental offenders and victims, the variety of approaches to achieving environmental justice, and criminal justice solutions to specific environmental problems.

CRIM 384 Violence and Victimology

3c-01-3cr

Prerequisites: [CRIM 101](#) and [102](#)

Introduces the leading theories and research in the area of violent criminal behavior and victimization. A special emphasis is on patterns of violent offending and victimization over time, victim-offender relationships, and the experience of victims in the criminal justice system. Addresses major violent crimes including murder, rape, robbery, and assault.

CRIM 391 Substance Use and Abuse in Criminal Justice

3c-01-3cr

A study of substance use and abuse confronting American society. Alcohol and drug use and abuse education, philosophy, physiological effects,

and social aspects are examined in terms of control measures and public safety.

CRIM 394 Crime and Delinquency Prevention

3c-01-3cr

Prerequisites: [CRIM 101](#) and [102](#)

Examines various crime and delinquency prevention policies and programs. Topics include the historical development of crime and delinquency prevention methods, theoretical applications to prevention efforts, and research findings on program effectiveness. The importance of research design in evaluating prevention programs also will be considered.

CRIM 400 Theoretical Criminology

3c-01-3cr

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 are included.

CRIM 401 Contemporary Issues in Criminology

3c-01-3cr

An examination of the nature and extent of crime in modern Western society. Emphasizes 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.

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CRIM 403 Dilemmas in Criminology and Criminal Justice

3c-01-3cr

Prerequisites: [CRIM 101](#) and [102](#)

An overview of prominent ethical issues facing professionals in criminology and criminal justice, with an emphasis on encouraging individual students to explore their own ethical and moral systems and how they make ethical/moral decisions. Primarily discussion/seminar oriented.

CRIM 410 Race, Ethnicity, Social Structure, and Crime

3c-01-3cr

Prerequisites: [CRIM 101](#) and [102](#)

Introduces the art of thinking critically about the social construction of race, ethnicity, and social class in crime and crime control, with special focus on the United States.

CRIM 450 Women and Crime

3c-01-3cr

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. (Offered as CRIM 390 prior to 2003-04)

CRIM 470 Comparative Study of Justice

3c-01-3cr

Comparison of American systems of administration of justice with those of other nations.

CRIM 480 Seminar in Criminology–The Administration of Justice

3c-01-3cr

A study of selected topics in criminology–the administration of justice. May be taken more than once for a maximum of 6cr. Not for credit after prior CRIM 480.

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CRIM 481 Special Topics in Criminology

var-1-3cr

Prerequisite: Department consent

A seminar providing study of selected topics not emphasized in other courses. May be taken more than once to a maximum 6cr.

CRIM 482 Independent Study in Criminology

var-1-3cr

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 493 Internship

var-3-12cr

A structured field placement designed to broaden the educational experience through observation and participation in work assignments in government or private sectors. 6cr can be applied to the major requirements.

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Economics (ECON)

Department of Economics
College of Humanities and Social Sciences

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

ECON 101 Basic Economics	ECON 350 Comparative Economic Systems
ECON 121 Principles of Macroeconomics	ECON 351 Russian Economic Development
ECON 122 Principles of Microeconomics	ECON 355 Statistics for Economists
ECON 223 Economics of Crime	ECON 356 Introduction to Econometrics
ECON 239 Economics of Sports	ECON 360 Economics of Health Services
ECON 281 Special Topics	ECON 361 Environmental Economics
ECON 325 Monetary Economics I	ECON 369 Contemporary Economic Issues
ECON 326 Monetary Economics II	ECON 371 Economics of Labor Legislation
ECON 330 Labor Economics	ECON 372 Economics of Wages and Employment
ECON 331 Industrial Organization	ECON 373 Economics of Human Resources
ECON 332 Government and Business	ECON 383 Urban/Regional Economics
ECON 333 Regulation of Industry	ECON 421 Macroeconomic Analysis
ECON 334 Managerial Economics	ECON 422 Microeconomic Analysis
ECON 335 Public Finance	ECON 480 Seminar
ECON 336 State and Local Finance	ECON 481 Special Topics
ECON 339 Economic Development I	ECON 482 Independent Study
ECON 343 Economic History of the United States	ECON 483 Honors Thesis
ECON 345 International Trade	ECON 493 Internship in Economics
ECON 346 International Finance	

ECON 101 Basic Economics

3c-0l-3cr

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 3cr of economics. Note: May not be taken after successful completion of or concurrent registration in any other ECON course.

ECON 121 Principles of Macroeconomics

3c-0l-3cr

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 Microeconomics

3c-0l-3cr

Economics of the firm; theory of consumer demand; determination of price and output in different market structures; distribution of income; economic growth.

ECON 223 Economics of Crime

3c-0l-3cr

Economic analysis of criminal activity and its impact on the allocation of scarce resources. Uses fundamental economic models to explain crimes against people, property crime, “victimless crime,” and organized crime.

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ECON 239 Economics of Sports

3c-0l-3cr

Student gains a better understanding of the sports industry. Course explores how economics applies to both amateur and professional sports. Addresses a variety of areas, including labor issues in sports (e.g., free agency, reserve clause, unions, strikes, and discrimination), the legal relationship between sports and government (e.g., Title IX and antitrust law), and public finance issues (e.g., location of sports franchises and public ownership of stadiums and arenas). Guest speakers and a multimedia approach are used.

ECON 281 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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 325 Monetary Economics I

3c-0l-3cr

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-0l-3cr

Prerequisite: [ECON 325](#) or instructor permission

A 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-0l-3cr

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 Industrial Organization

3c-0l-3cr

Prerequisite: [ECON 122](#) or instructor permission

Social effectiveness of industries analyzed through measures of market structure, market conduct, and market performance.

ECON 332 Government and Business

3c-0l-3cr

Prerequisite: [ECON 122](#) or instructor permission

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-0l-3cr

Prerequisites: [ECON 121](#), [122](#) or instructor permission

Examines the theory and practice of regulation, emphasizing effects of regulation on economic performance and efficiency in the U.S.

ECON 334 Managerial Economics

3c-0l-3cr

Prerequisites: [ECON 121](#), [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-01-3cr

Prerequisites: [ECON 121](#), [122](#) or instructor permission

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-01-3cr

Prerequisite: [ECON 122](#) or instructor permission

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-01-3cr

Prerequisites: [ECON 121](#), [122](#)

Theory of growth; theory of economic development of underdeveloped countries.

ECON 343 Economic History of the United States

3c-01-3cr

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-01-3cr

Prerequisites: [ECON 121](#) and [122](#) or instructor permission

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.

ECON 346 International Finance

3c-01-3cr

Prerequisites: [ECON 121](#) and [122](#) or instructor permission

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-01-3cr

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.

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ECON 351 Russian Economic Development

3c-01-3cr

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.

ECON 355 Statistics for Economists

3c-01-3cr

Prerequisite: [ECON 121](#) or [122](#) or instructor permission

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-0l-3cr

Prerequisites: [ECON 355](#) or its equivalent or instructor permission

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-0l-3cr

Prerequisite: [ECON 121](#) or [122](#) or instructor permission

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 are considered along with other current policy issues.

ECON 361 Environmental Economics

3c-0l-3cr

Prerequisite: [ECON 121](#) 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. (Offered as ECON 283 prior to 2003-04)

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ECON 369 Contemporary Economic Issues

3c-0l-3cr

Prerequisite: [ECON 121](#) or [122](#)

A rigorous but nontechnical analysis of a variety of economic problems and a formulation and evaluation of possible corrective policies. (Offered as ECON 241 prior to 2003-04)

ECON 371 Economics of Labor Legislation

3c-0l-3cr

Prerequisite: [ECON 330](#) or instructor permission

Economic background and effects of governmental regulation of labor relations, emphasizing a detailed examination of National Labor Relations Act as amended.

ECON 372 Economics of Wages and Employment

3c-0l-3cr

Prerequisite: [ECON 330](#) or instructor permission

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-0l-3cr

Prerequisite: [ECON 121](#) or [122](#)

An inquiry into economic demographics and related factors affecting growth, structure, and distribution of an economy's labor force into different occupations.

ECON 383 Urban/Regional Economics

3c-0l-3cr

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-0l-3cr

Prerequisites: [ECON 121](#), [122](#) or instructor permission

Emphasizes aggregate income levels and problems of unemployment, inflation, and growth. Covers consumption and investment theories and the role of fiscal and monetary policy.

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ECON 422 Microeconomic Analysis

3c-0l-3cr

Prerequisites: [ECON 121](#), [122](#), [MATH 121](#) or equivalent

Consumer behavior, theory of the firm, theory of exchange, market structures, distribution, general equilibrium theory, welfare economics.

ECON 480 Seminar

3c-01-3cr

Prerequisite: Instructor permission

A seminar in selected economic issues or problems.

ECON 481 Special Topics

var-1-3cr

Prerequisite: Instructor permission

Offered on an experimental or temporary basis to explore topics not 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-1-6cr

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.

ECON 483 Honors Thesis

var-1-6cr

Prerequisites: Admission to departmental honors program; prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office

An intensive, focused study involving independent research culminating in a written thesis approved by a thesis director and two faculty readers/committee members. May be taken more than once to a maximum of 6cr.

ECON 493 Internship in Economics

var-2-12cr

Prerequisites: Economics major who has completed at least 12cr in ECON and who has at least a 2.5 GPA 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 credits earned depends upon the nature of the job and amount of time involved in internship. A maximum of 6cr earned in this course may be counted toward the 30cr in economics requirement for ECON majors.

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Geography (GEOG)

Department of Geography and Regional Planning
College of Humanities and Social Sciences

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

GEOG 101 Introduction to Geography: Human Environment	GEOG 337 Historical Geography
GEOG 102 Geography of United States and Canada	GEOG 341 Climatology
GEOG 104 Geography of the Non-Western World	GEOG 342 Physiography
GEOG 213 Cartography I	GEOG 343 Geography of Fresh Water Resources
GEOG 230 Cultural Geography	GEOG 345 Biogeography for Environmental Managers
GEOG 231 Economic Geography	GEOG 352 Planning Methods
GEOG 251 Geography of Pennsylvania	GEOG 371 Aerospace Workshop
GEOG 252 Geography of Latin America	GEOG 411 History of Geography
GEOG 253 Geography of Europe	GEOG 412 Research Seminar
GEOG 254 Geography of Russia and the Soviet Sphere	GEOG 415 Remote Sensing
GEOG 255 Geography of Africa	GEOG 417 Technical Issues in GIS
GEOG 256 Geography of East Asia	GEOG 418 Geographic Information Systems (GIS) for Crime Mapping and Social Scientific Analysis
GEOG 257 Geography of South and Southeast Asia	GEOG 419 Geographic Information Systems (GIS) for Environmental Applications
GEOG 261 Geography of Wine	GEOG 421 Enterprise GIS Management
GEOG 281 Special Topics	GEOG 431 Geography of American Indians
GEOG 313 Cartography II	GEOG 432 Geography of Crime
GEOG 314 Map and Photograph Interpretation	GEOG 440 Conservation: Environmental Analysis
GEOG 316 Introduction to Geographic Information Systems	GEOG 464 Land Use Policy
GEOG 331 Population Geography	GEOG 481 Special Topics
GEOG 332 Urban Geography	GEOG 482 Independent Study
GEOG 333 Trade and Transportation	GEOG 483 Honors Thesis
GEOG 334 Political Geography	GEOG 484 Field Studies in Geography and Social Studies
GEOG 335 Geography of Energy	GEOG 493 Internship
GEOG 336 Social Geography	GEOG 499 Independent Study

GEOG 101 Introduction to Geography: Human Environment

3c-0l-3cr

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-01-3cr
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.

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GEOG 104 Geography of the Non-Western World

3c-01-3cr
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.

GEOG 213 Cartography I

3c-01-3cr
Introduces principles of thematic map construction. Emphasizes 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-01-3cr
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-01-3cr
An introduction to geographic concepts, methods, and skills related to spatial patterns of production, consumption, and exchange over the earth's surface.

GEOG 251 Geography of Pennsylvania

3c-01-3cr
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-01-3cr
The impact of rapid population growth and economic development on the environment and spatial organization of Latin America is considered. The resource base and cultural heritage of the region are studied.

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GEOG 253 Geography of Europe

3c-01-3cr
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-01-3cr
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 on efforts at transformation from communist to market economics and the geopolitical status of the new nations.

GEOG 255 Geography of Africa

3c-01-3cr
A 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.

GEOG 256 Geography of East Asia

3c-01-3cr
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-0l-3cr

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 261 Geography of Wine

3c-0l-3cr

The geography of the grape, its production, products, social significance, and consequences of the global wine trade are explored. Students develop an appreciation for the environmental constraints and characteristics of wines and wine regions. Field trips to visit wineries are an essential element of the course. Verifiable proof of 21 years of age required for voluntary wine-tasting activities.

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GEOG 281 Special Topics

3c-0l-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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)

GEOG 313 Cartography II

3c-0l-3cr

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-0l-3cr

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-0l-3cr

Prerequisite: [GEOG 213](#), or equivalent, or instructor permission

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)

GEOG 331 Population Geography

3c-0l-3cr

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.

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GEOG 332 Urban Geography

3c-0l-3cr

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-0l-3cr

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)

GEOG 334 Political Geography

3c-0l-3cr

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-01-3cr

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. 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-01-3cr

Focuses on spatial dimensions of the American society. The distribution of various social groups and their impact on the landscape are considered.

GEOG 337 Historical Geography

3c-01-3cr

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-01-3cr

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-01-3cr

Focuses on landform types and their spatial distribution. Emphasizes 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-01-3cr

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.

GEOG 345 Biogeography for Environmental Managers

3c-01-3cr

Prerequisite: One of the following: [GEOG 341](#), [342](#), [BIOL 103](#), [112](#), [115](#)

Examines the distribution of plants and animals across the earth's surface, as influenced by natural and human processes. Emphasizes landscape and regional habitat dynamics as they relate to environmental planning and management. Field trips supplement lectures and readings. (Also offered as [RGPL 345](#); may not be taken for duplicate credit)

GEOG 352 Planning Methods

3c-01-3cr

Prerequisite: [RGPL 350](#) or instructor permission

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 [RGPL 352](#); may not be taken for duplicate credit)

GEOG 371 Aerospace Workshop

3c-01-3cr

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). Taught Summer only.

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GEOG 411 History of Geography

3c-01-3cr

Prerequisites: [GEOG 213](#), [230](#), [231](#), and [341](#) or [342](#)

Deals with history of the discipline, great ideas, leading problems, and unresolved issues.

GEOG 412 Research Seminar

3c-0l-3cr

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)

GEOG 415 Remote Sensing

3c-0l-3cr

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-0l-3cr

Prerequisite: [GEOG 316](#)

A project-based class in which students learn the skills to develop and maintain a Geographic Information System. Through cooperative learning, students 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)

GEOG 418 Geographic Information Systems (GIS) for Crime Mapping and Social Scientific Analysis

3c-0l-3cr

Prerequisite: 60 completed credits or instructor permission

Provides knowledge of the theoretical basis of Geographic Information Systems (GIS) and its applications for criminologists and other social scientists. In the process of demonstrating some of the capabilities of GIS, the specifics of selected GIS and database software packages will also be covered. Develop the skills to use GIS packages, manipulate and query geographic data to solve problems, perform simple spatial analysis, and understand how to utilize GIS in law enforcement/social science problem-solving and decision-making processes.

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GEOG 419 Geographic Information Systems (GIS) for Environmental Applications

3c-0l-3cr

Prerequisite: 60 completed credits or instructor permission

Provides knowledge of the theoretical basis of Geographic Information Systems (GIS) and its applications for environmental scientific analysis. In the process of demonstrating some of the capabilities of GIS, the specifics of selected GIS and database software packages will also be covered. Students develop the skills to use GIS packages, manipulate and query geographic data to solve problems, perform simple spatial analysis, and understand how to utilize GIS for environmental analysis and resource management.

GEOG 421 Enterprise GIS Management

3c-0l-3cr

Prerequisite: GEOG 417 or instructor permission

Principles and methods for creating, operating, maintaining, and managing data for multi-user geospatial information systems are studied. Each student will customize, document, and operate a multi-user geographic information system of his or her design. (Also offered as [RGPL 421](#); may not be taken for duplicate credit.)

GEOG 431 Geography of American Indians

3c-0l-3cr

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-0l-3cr

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-0l-3cr

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.

GEOG 464 Land Use Policy

3c-01-3cr

Introduces and provides an overview of land use issues at the regional, state, and federal levels. Emphasizes 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)

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GEOG 481 Special Topics

3c-01-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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-1-3cr

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.

GEOG 483 Honors Thesis

var-1-6cr

Prerequisites: Admission to departmental honors program; prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office

An intensive, focused study involving independent research culminating in a written thesis approved by a thesis director and two faculty readers/committee members. May be taken more than once to a maximum of 6cr.

GEOG 484 Field Studies in Geography and Social Studies

var 1-3cr

Prerequisite: Instructor permission

Immerses the student in a regional environment. Helps the student to see critically and to interpret a cultural landscape. The experience is predominantly off campus. Using a combination of structured field exercises, culturally specific readings, primary and secondary data, and standard geographic field techniques, the course strives to develop a deeper affective and cognitive understanding of a cultural region. May be repeated under a different study area title.

GEOG 493 Internship

var-3-12cr

Professional learning experience with emphasis on application of academic background. Open to majors and minors in geography with a total of 57cr and 15cr in the major. See internship supervisor for additional information.

GEOG 499 Independent Study

var-3-6cr

Independent research and study under faculty direction. Interested students should approach department chairperson for information.

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Journalism (JRNL)

Department of Journalism
College of Humanities and Social Sciences

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

JRNL 102 Basic Journalistic Skills	JRNL 375 World News Coverage
JRNL 105 Journalism and the Mass Media	JRNL 393 Document Design I
JRNL 120 Journalistic Writing	JRNL 423 Management in Mass Communications
JRNL 220 Writing for the Print Media	JRNL 427 Publications
JRNL 243 History of the American Press	JRNL 430 Public Opinion and the News Media
JRNL 250 Women and the Press	JRNL 446 Research Methods in Journalism
JRNL 281 Special Topics	JRNL 450 Advertising Writing
JRNL 321 Feature Writing	JRNL 455 High School Journalism
JRNL 326 Public Relations I	JRNL 481 Special Topics
JRNL 327 Layout, Design, and Production	JRNL 482 Independent Study
JRNL 328 News Reporting	JRNL 490 Public Relations II
JRNL 337 Editing	JRNL 491 Presentation Making
JRNL 344 Issues and Problems	JRNL 492 Problem-solving in Public Relations
JRNL 345 Sports Journalism	JRNL 493 Internship
JRNL 347 Journalism Law	JRNL 494 Document Design II
JRNL 348 The Editorial Page	

JRNL 102 Basic Journalistic Skills

3c-0l-3cr

Prerequisite: [ENGL 101](#)

Required for journalism majors and minors. Emphasizes grammar, punctuation, spelling, *AP Stylebook*, copyediting, headlines, and accuracy.

JRNL 105 Journalism and the Mass Media

3c-0l-3cr

Prerequisite: [ENGL 101](#)

A critical examination of roles-goals of newspapers, magazines, radio, books, movies, and television as they affect American society socially, politically, and economically.

JRNL 120 Journalistic Writing

3c-0l-3cr

Prerequisite: [ENGL 101](#), nonmajors/minors

Emphasizes intelligent use of writing ability in a journalistic style and understanding of the why of journalism and mass media. Practices and improves writing skills.

JRNL 220 Writing for the Print Media

3c-0l-3cr

Prerequisites: [JRNL 102](#) (grade of 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-01-3cr

Prerequisite: [JRNL 120](#) or [220](#)

Traces the development of the American press from its Colonial roots. Emphasizes the role of the press in political and social development.

JRNL 250 Women and the Press

3c-01-3cr

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. Emphasizes 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-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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-01-3cr

Prerequisites: [JRNL 102](#), [220](#)

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-01-3cr

Prerequisites: [JRNL 102](#), [120](#) or [220](#)

Introduces the principles, practices, programs, and possibilities in the various areas of public relations.

JRNL 327 Layout, Design, and Production

2c-31-3cr

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-01-3cr

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-01-3cr

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-01-3cr

Prerequisites: [JRNL 102](#), [120](#) or [220](#)

Examines 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-0l-3cr

Prerequisite: [JRNL 220](#)

Emphasizes skills for covering, writing, and editing of sports and introduces specific practices in newspaper, radio-TV, and sports information work.

JRNL 347 Journalism Law

3c-0l-3cr

Prerequisites: [JRNL 328](#), junior/senior standing

Open to nonmajors by instructor permission. 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-0l-3cr

Prerequisite: Junior/senior standing

Emphasizes 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-0l-3cr

Prerequisite: Sophomore standing

Deals with international news events and analysis of international news coverage in sources from around the world. Emphasizes 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.

JRNL 393 Document Design I

3c-0l-3cr

Prerequisite: Junior/senior standing

Teaches advanced principles of document design and gives 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.

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JRNL 423 Management in Mass Communications

3c-0l-3cr

Prerequisite: [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-0l-3cr

Prerequisite: [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. Also teaches principles and concepts of publications management, including coping with deadline pressures and the creative disposition, and the marketing of publications. The class produces a total publication.

JRNL 430 Public Opinion and the News Media

3c-0l-3cr

Prerequisite: Junior standing

Deals with understanding and measuring public opinion. Emphasizes 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.

JRNL 446 Research Methods in Journalism

3c-0l-3cr

Prerequisite: [JRNL 328](#) or instructor permission

Explores theoretical and practical issues in information gathering, with emphasis on data analysis and computer-assisted reporting for public affairs journalism. Students apply scientific methods in news reporting and analyze the effects of precision journalism on society.

JRNL 450 Advertising Writing

3c-0l-3cr

Prerequisites: [JRNL 220](#), instructor permission

A basic course in the preparation of advertising copy and continuity for all media. A combination of lecture and laboratory course. Enrollment is limited to upperclass majors.

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JRNL 455 High School Journalism

3c-0l-3cr

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, to student publications advising as well as legal and ethical issues in high school journalism. Open to nonmajors.

JRNL 481 Special Topics

var-1-3cr

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-1-6cr

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office

Opportunities for independent study that go beyond the usual classroom activities. Approval based on academic appropriateness and availability of resources; enrollment is limited to fifteen upperclass majors per semester.

JRNL 490 Public Relations II

3c-0l-3cr

Prerequisites: [JRNL 220](#), [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.

JRNL 491 Presentation Making

3c-0l-3cr

Prerequisites: [JRNL 220](#), [326](#)

Gives 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.

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JRNL 492 Problem-solving in Public Relations

3c-0l-3cr

Prerequisite: [JRNL 328](#)

Introduces techniques for analyzing and tracking information flow in organizations. Introduces creative problem-solving techniques which are standard practice in corporate research groups.

JRNL 493 Internship

var-6-12cr

Prerequisites: [JRNL 102](#), [105](#), [220](#), [328](#), department approval

On-the-job training opportunities in journalism and related areas. Maximum of 6cr may be applied to 30cr minimum of major.

JRNL 494 Document Design II

3c-0l-3cr

Prerequisites: [JRNL 328](#), [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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Political Science (PLSC)

Department of Political Science
College of Humanities and Social Sciences

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

PLSC 101 World Politics	PLSC 356 Mass Media in American Politics
PLSC 111 American Politics	PLSC 358 Judicial Process
PLSC 250 Public Policy	PLSC 359 Constitutional Law and Civil Liberties
PLSC 251 State and Local Political Systems	PLSC 360 Classical Political Thought
PLSC 280 Comparative Government I: Western Political Systems	PLSC 361 Modern Political Thought
PLSC 281 Special Topics	PLSC 362 American Political Thought
PLSC 282 International Relations	PLSC 370 Introduction to Public Administration
PLSC 283 American Foreign Policy	PLSC 371 Issues in Public Administration
PLSC 285 Comparative Government II: Non-Western Political Systems	PLSC 377 Political Behavior
PLSC 300 Research Methods in Political Science	PLSC 380 Soviet Politics
PLSC 320 International Law	PLSC 382-387 Political Systems
PLSC 321 International Organizations	PLSC 388 Political-Military Strategy
PLSC 346 Political Sociology	PLSC 389 Developing Nations
PLSC 350 The Presidency	PLSC 480 Political Science Seminar
PLSC 351 Legislative Process	PLSC 481 Special Topics
PLSC 353 American Political Parties	PLSC 482 Independent Study
PLSC 354 Metropolitan Problems	PLSC 493 Political Science Internship
PLSC 355 Intergovernmental Relations	

PLSC 101 World Politics

3c-0l-3cr

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-0l-3cr

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-0l-3cr

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.

PLSC 251 State and Local Political Systems

3c-01-3cr
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-01-3cr
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-1-3cr
Prerequisite: As appropriate to course content
Offered on an experimental or temporary basis to explore topics not 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-01-3cr
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-01-3cr
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-01-3cr
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.

PLSC 300 Research Methods in Political Science

3c-01-3cr
Prerequisite: [PLSC 101](#) or [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-01-3cr
Prerequisites: [PLSC 101](#), [281](#), or instructor permission
The study of the development, nature, and function of international law, including recent trends.

PLSC 321 International Organizations

3c-01-3cr
Prerequisites: [PLSC 101](#), [281](#), or instructor permission
An inquiry into purposes, structures, and actions of contemporary international political organizations, such as United Nations, regional, and functional organizations.

PLSC 346 Political Sociology

3c-01-3cr
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.

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PLSC 350 The Presidency

3c-01-3cr

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-01-3cr

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.

PLSC 353 American Political Parties

3c-01-3cr

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-01-3cr

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-01-3cr

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.

PLSC 356 Mass Media in American Politics

3c-01-3cr

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.

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PLSC 358 Judicial Process

3c-01-3cr

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-01-3cr

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.

PLSC 360 Classical Political Thought

3c-01-3cr

Restriction: Not for credit after [PHIL 323](#)

The origins and development of Western thought from Plato and Aristotle through Cicero and Saint Aquinas. Focuses 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-01-3cr

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. Emphasizes the "instrumentalist" state and the idea of a political science.

PLSC 362 American Political Thought

3c-01-3cr

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.

PLSC 370 Introduction to Public Administration

3c-0l-3cr

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-0l-3cr

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.

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PLSC 377 Political Behavior

3c-0l-3cr

Prerequisites: [PLSC 111](#), [PSYC 101](#)

An interdisciplinary course which investigates the psychological bases of political behavior. Cross-listed as PSYC 377.

PLSC 380 Soviet Politics

3c-0l-3cr

Essential features of Communist party and government of the former U.S.S.R., including geographical and historical background and ideological and theoretical foundations. [PLSC 280](#) should be taken prior to this course. (Content is in revision to reflect changing structure)

PLSC 382-387 Political Systems

3c-0l-3cr

Suggested Prerequisites: [PLSC 280](#) and/or [285](#)

An intensive, comparative study of the government and politics of a selected region. 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-0l-3cr

Prerequisites: [PLSC 281](#) or [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.

PLSC 389 Developing Nations

3c-0l-3cr

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-0l-3cr

Readings and written assignments on a specific topic determined by the instructor in charge.

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PLSC 481 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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.

PLSC 482 Independent Study

var-3cr

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-2-12cr

Prerequisites: 9cr in Political Science with 2.0 GPA; [PLSC 111](#); 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 6cr applied to minimum in major; maximum of 3cr applied to minimum in minor.

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Psychology (PSYC)

Department of Psychology
College of Natural Sciences and Mathematics

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

PSYC 101 General Psychology	PSYC 359 Sensation and Perception
PSYC 280 Psychological Inquiry	PSYC 371 Human Motivation
PSYC 290 Research Design and Analysis I	PSYC 372 Drugs and Behavior
PSYC 291 Research Design and Analysis II	PSYC 374 Stress and Coping
PSYC 310 Developmental Psychology	PSYC 375 Mass Media and Behavior
PSYC 311 Child Psychology	PSYC 376 Psychology of Health Behavior
PSYC 312 Adult Development and Aging	PSYC 378 Psychology of Death and Dying
PSYC 315 Experimental Development Psychology	PSYC 379 Psychology of Human Sexuality
PSYC 320 Personality	PSYC 388 Forensic Psychology
PSYC 321 Abnormal Psychology	PSYC 390 Industrial-Organizational Psychology
PSYC 325 Psychological Testing and Measurement	PSYC 410 Historical Trends in Psychology
PSYC 330 Social Psychology	PSYC 411 Psychology of Women
PSYC 331 Environmental Psychology	PSYC 421 Psychology of Work
PSYC 335 Experimental Social Psychology	PSYC 425 Experimental Organizational Psychology
PSYC 341 Conditioning and Learning	PSYC 450 Introduction to Clinical Psychology
PSYC 342 Human Cognition: Memory and Thinking	PSYC 480 Honors Seminar in Psychology
PSYC 345 Introduction to Human Cognition	PSYC 481 Special Topics in Psychology
PSYC 350 Physiological Psychology	PSYC 482 Independent Study in Psychology
PSYC 355 Comparative Psychology	PSYC 483 Honors Thesis
PSYC 356 Biopsychology	PSYC 493 Psychological Practicum

PSYC 101 General Psychology

3c-0l-3cr

An introduction to the scientific study of behavior and mental processes.

PSYC 280 Psychological Inquiry

3c-0l-3cr

Prerequisites: [PSYC 101](#), Psychology minors

Introduces students minoring in Psychology to issues central to carrying out and interpreting empirical research in the field. Become more sophisticated consumers of empirical research findings. May not take this course for credit after successful completion of [PSYC 290](#).

PSYC 290 Research Design and Analysis I

3c-2l-4cr

Prerequisites: [MATH 217](#), [PSYC 101](#)

A laboratory course devoted to designing, conducting, and evaluating results of psychological experiments.

PSYC 291 Research Design and Analysis II

3c-2l-4cr

Prerequisites: [PSYC 101](#), grade of C or better in [PSYC 290](#)

A continuation of Research Design and Analysis I.

PSYC 310 Developmental Psychology

3c-0l-3cr

Prerequisite: [PSYC 101](#)

A 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 PSYC 311 or 312. May receive credit towards the Psychology major or minor for only one of [PSYC 310](#), [311](#), or [315](#).

PSYC 311 Child Psychology

3c-0l-3cr

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-0l-3cr

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-2l-4cr

Prerequisite: [PSYC 280](#) or [290](#)

Studies human development from conception to death with emphasis on the physical, cognitive, and emotional domains. Students are 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-0l-3cr

Prerequisite: [PSYC 101](#)

Provides comparative analysis of major representative traditional and contemporary theories of personality.

PSYC 321 Abnormal Psychology

3c-0l-3cr

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-2l-4cr

Prerequisites: [MATH 217](#) and [PSYC 101](#), 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.

PSYC 330 Social Psychology

3c-0l-3cr

Prerequisite: [PSYC 101](#)

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-0l-3cr

Prerequisite: [PSYC 101](#)

The study of the relationship between human behavior and its environmental context. Emphasizes the physical environment, both natural and built.

PSYC 335 Experimental Social Psychology

3c-2l-4cr

Prerequisite: [PSYC 280](#) or [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 after successful completion of [PSYC 330](#).

PSYC 341 Conditioning and Learning

3c-2l-4cr

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.

PSYC 342 Human Cognition: Memory and Thinking

3c-2l-4cr

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-0l-3cr

Prerequisite: [PSYC 101](#)

Provides an overview of cognitive psychology. The Information Processing Model is contrasted with its predecessor, Behaviorism, and its contemporary challenger, Connectionism. May not receive credit towards the psychology major or minor for both [PSYC 342](#) and [345](#).

PSYC 350 Physiological Psychology

3c-2l-4cr

Prerequisites: [PSYC 101](#), [290](#)

A study of the relationship between behavior and the anatomy and physiology of the nervous system. 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-0l-3cr

Prerequisite: [PSYC 101](#)

A survey of animal behavior patterns and control mechanisms including learning, development, communication, and social behavior. Emphasizes the relationship of the animal to its environment and on the relationship of animal models to human behavior.

PSYC 356 Biopsychology

3c-0l-3cr

Prerequisite: [PSYC 101](#)

A study of the relationship between behavior and the anatomy and physiology of the nervous system. May not receive credit towards the Psychology major or minor for both [PSYC 350](#) and [356](#).

PSYC 359 Sensation and Perception

3c-2l-4cr

Prerequisite: [PSYC 290](#)

Introduces the biological and psychological processes that determine our perceptions and their relationships to physical properties of the environment. Laboratory work provides the opportunity to explore lecture and textbook topics firsthand and to collect and analyze psychophysical data.

PSYC 371 Human Motivation

3c-0l-3cr

Prerequisite: [PSYC 101](#)

A systematic study of how behavior is initiated, sustained, directed, and terminated. Current theories in this area are critically reviewed.

PSYC 372 Drugs and Behavior

3c-0l-3cr

Prerequisites: [PSYC 101](#) and junior standing or permission

A survey of the current knowledge concerning the actions of drugs. Includes 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-0l-3cr

Prerequisite: [PSYC 101](#)

Fundamental concepts and findings in stress and stress-related disorders. Relationships of stress to disease and methods for coping with stress are presented.

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PSYC 375 Mass Media and Behavior

3c-0l-3cr

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)

PSYC 376 Psychology of Health Behavior

3c-0l-3cr

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-0l-3cr

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-0l-3cr

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.

PSYC 388 Forensic Psychology

3c-0l-3cr

Prerequisite: [PSYC 101](#)

An examination of current topics at the interface between psychology and the legal system.

PSYC 390 Industrial-Organizational Psychology

3c-0l-3cr

Prerequisites: [MATH 214](#) or [217](#), [PSYC 101](#)

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 after successful completion of [PSYC 425](#).

PSYC 410 Historical Trends in Psychology

3c-0l-3cr

Prerequisites: [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.

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PSYC 411 Psychology of Women

3c-0l-3cr

Prerequisites: [PSYC 101](#), junior or senior standing or instructor permission

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.

PSYC 421 Psychology of Work

3c-0l-3cr

Prerequisites: [PSYC 101](#), junior/senior standing

Introduces the human experience in work situations. Emphasizes the analysis, measurement, prediction, and development of human aptitude, ability, and performance in work and employment situations.

PSYC 425 Experimental Organizational Psychology

3c-2l-4cr

Prerequisite: 12cr of PSYC (including [PSYC 290](#)), beyond [PSYC 101](#)

Introduces 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 conduct empirical research projects.

PSYC 450 Introduction to Clinical Psychology

3c-0l-3cr

Prerequisites: [PSYC 101](#), [320](#), [321](#), and instructor permission

An overview of clinical psychology, with emphasis on clinician's use of methods of evaluation and on treatment and modification of behavior.

PSYC 480 Honors Seminar in Psychology

3c-0l-3cr

A seminar in the graduate tradition with a specialized topic. May be taken more than once to a maximum of 6cr.

PSYC 481 Special Topics in Psychology

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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 6cr.

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PSYC 482 Independent Study in Psychology

var-1-3cr

Prerequisite: 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 6cr. Approval is based on academic appropriateness and availability of resources.

PSYC 483 Honors Thesis

var-1-6cr

Prerequisites: Admission to departmental honors program; prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office

An intensive, focused study involving independent research culminating in a written thesis approved by a thesis director and two faculty readers/committee members. May be taken more than once to a maximum of 6cr.

PSYC 493 Psychological Practicum

var-1-12cr

Prerequisites: [PSYC 101](#) 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 12cr.

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Sociology (SOC)

Department of Sociology
College of Humanities and Social Sciences

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

SOC 151 Principles of Sociology	SOC 345 Interpersonal Dynamics
SOC 231 Contemporary Social Problems	SOC 348 Sociology of Work
SOC 233 Language and Culture	SOC 352 Sociology of Religion
SOC 251 Sociology of Human Sexuality	SOC 357 Sociology of Aging
SOC 269 Sociology of Deviance	SOC 361 Social Stratification
SOC 271 Cultural Area Studies: Africa	SOC 362 Racial and Ethnic Minorities
SOC 272 Cultural Area Studies: China	SOC 363 Sociology of Gender
SOC 273 Cultural Area Studies: Southeast Asia	SOC 421 Sociology of Mass Media
SOC 274 Cultural Area Studies: Latin America	SOC 427 Spouse Abuse
SOC 281 Special Topics	SOC 428 Child Abuse
SOC 286 Marriage, Kinship, and the Family	SOC 448 Social Policy
SOC 301 Foundations of Sociological Practice	SOC 452 Disability and Society
SOC 302 Clinical Sociological Practice	SOC 456 Field Research Methods
SOC 303 Social and Cultural Change	SOC 457 Computer Use in Sociology
SOC 314 Native Americans	SOC 458 Political Sociology
SOC 320 Sociological Theory	SOC 460 Social Research Methods I
SOC 333 Delinquency and Youth	SOC 461 Social Research Methods II
SOC 335 Alcohol and Drug Abuse	SOC 480 Sociology Seminar
SOC 336 Sociology of the Family	SOC 481 Special Topics
SOC 337 World Societies and World Systems	SOC 482 Independent Study
SOC 340 Sociology of Industry	SOC 483 Honors Thesis
SOC 341 Sociology of Education	SOC 484 Readings in Sociology
SOC 342 Social and Cultural Aspects of Health and Medicine	SOC 493 Internship in Sociology

SOC 151 Principles of Sociology

3c-0l-3cr
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-0l-3cr
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-0l-3cr

Focuses on social and cultural functions of language. Particular emphasis on analysis of non-Western languages.

SOC 251 Sociology of Human Sexuality

3c-0l-3cr

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 269 Sociology of Deviance

3c-0l-3cr

Prerequisite: [SOC 151](#) or instructor permission

Provides an overview of the sociological study of deviance. Begins with examining the nature and meaning of deviance or how society creates deviance as social and legal constructions and identifies specific human behaviors as types or forms of deviance. Also examines the major theories or multi-causal explanations of why such deviance occurs. Further describes how society, especially its social institutions and agents, attempts to control or suppress such deviance. Social policy implications of such societal reactions are also considered.

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SOC 271 Cultural Area Studies: Africa

3c-0l-3cr

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 [ANTH 271](#); may not be taken for duplicate credit)

SOC 272 Cultural Area Studies: China

3c-0l-3cr

Assists in developing an understanding of contemporary China. While the course begins with prehistoric and historic aspects of China, the focus is on contemporary issues presented in the context of sociological theory. Specific Chinese cultural components are investigated, including values, attitudes, norms, social organization, linguistics, and folklore. (Also offered as [ANTH 272](#); may not be taken for duplicate credit)

SOC 273 Cultural Area Studies: Southeast Asia

3c-0l-3cr

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 [ANTH 273](#); may not be taken for duplicate credit)

SOC 274 Cultural Area Studies: Latin America

3c-0l-3cr

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 [ANTH 274](#); may not be taken for duplicate credit)

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SOC 281 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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.

SOC 286 Marriage, Kinship, and the Family

3c-0l-3cr

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 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 [ANTH 286](#); may not be taken for duplicate credit)

SOC 301 Foundations of Sociological Practice

3c-01-3cr

Prerequisite: [SOC 151](#)

Introduces 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-01-3cr

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.

SOC 303 Social and Cultural Change

3c-01-3cr

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.

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SOC 314 Native Americans

3c-01-3cr

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-01-3cr

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.

SOC 333 Delinquency and Youth

3c-01-3cr

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-01-3cr

Prerequisite: [SOC 151](#)

Examines the social issues and problems of alcohol and drug misuse in American society. Legal and illegal substances are considered, and the causes of substance abuse as well as alternatives are examined.

SOC 336 Sociology of the Family

3c-01-3cr

Prerequisite: [SOC 151](#)

A sociological study of the family from various theoretical viewpoints. Special emphasis is on the contemporary American family. A variety of topics are covered, such as mate selection, power relationships and roles in the family, parent-child interaction, marital satisfaction, divorce, and others.

SOC 337 World Societies and World Systems

3c-01-3cr

Prerequisite: One of the following: [ANTH 110](#), [ECON 101](#) or [121](#), [GEOG 230](#), [HIST 202](#), [PLSC 101](#) or [282](#), [SOC 151](#)

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.

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SOC 340 Sociology of Industry

3c-01-3cr

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-01-3cr

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.

SOC 342 Social and Cultural Aspects of Health and Medicine

3c-01-3cr

Prerequisite: 6cr 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-01-3cr

Prerequisite: [SOC 151](#)

A study of the interaction between and among individuals and groups in various social settings. Emphasizes self-understanding, small groups, socialization, social influence and compliance, person perception, collective behavior, and mass communication.

SOC 348 Sociology of Work

3c-01-3cr

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-01-3cr

Prerequisite: [SOC 151](#)

Nature, role, and function of religious phenomena in human societies are 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 are examined. Other themes such as revitalization movements and processes of secularization in modern societies are included.

SOC 357 Sociology of Aging

3c-01-3cr

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-01-3cr

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.

SOC 362 Racial and Ethnic Minorities

3c-01-3cr

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-01-3cr

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.

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SOC 421 Sociology of Mass Media

3c-01-3cr

Prerequisite: [SOC 151](#)

Examines the development of mass media as dominant cultural forms within advanced industrial societies in the twenty-first 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-01-3cr

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-01-3cr

Prerequisite: [SOC 151](#)

Examines the prevalence, causes, and social implications of physical, sexual, emotional, and neglect forms of child abuse in society. Child abuse is studied from the individual, family, and societal level perspectives. Potential intervention strategies will also be considered.

SOC 448 Social Policy

3c-01-3cr

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-01-3cr

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. Emphasizes disability as a social construction.

SOC 456 Field Research Methods

SOC 457 Computer Use in Sociology

SOC 458 Political Sociology

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SOC 456 Field Research Methods

3c-0l-3cr

Prerequisite: [SOC 460](#) 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 includes 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-0l-3cr

Prerequisite: Instructor permission

Introduces the 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.

SOC 458 Political Sociology

3c-0l-3cr

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. Cross-listed as [PLSC 346](#).

SOC 460 Social Research Methods I

3c-0l-3cr

Prerequisites: [SOC 320](#), junior standing

First in a two-course methods sequence. 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. Student develops a research design to be implemented in the second course in the research sequence.

SOC 461 Social Research Methods II

3c-0l-3cr

Prerequisites: [SOC 460](#), junior standing

Second in a two-course methods sequence. Student implements the research project developed during the first course in this sequence. Course is primarily applied research, and students will use the semester to collect and analyze their data and to prepare a final research report on their findings.

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SOC 480 Sociology Seminar

var-1-3cr

Prerequisite: [SOC 151](#)

A seminar for advanced students devoted to an intensive analysis of specialized issues within the discipline.

SOC 481 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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-1-3cr

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 through consultation with a faculty member. A semester project ordinarily expected. Approval is based on academic appropriateness and availability of resources.

SOC 483 Honors Thesis

var-1-6cr

Prerequisites: Admission to departmental honors program; prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office

An intensive, focused study involving independent research culminating in a written thesis approved by a thesis director and two faculty readers/committee members. May be taken more than once to a maximum of 6sh.

SOC 484 Readings in Sociology

var-1-3cr

Prerequisite: [SOC 151](#)

Directed readings on special topics in sociology. (Offered as SOC 483 prior to 2003-04)

SOC 493 Internship in Sociology

var-3-12cr

Prerequisite: Prerequisites vary by track. Permission of internship coordinator required. GPA within Sociology of 2.5 or better.

Human Services Track Prerequisites: Grade of C or better in [SOC 151](#), [301](#), [302](#), [320](#), and 6cr within your substantive area

General Sociology Track Prerequisites: Grade of C or better in [SOC 151](#), [320](#), [361](#) or [362](#) or [363](#), and 9cr (6cr within your substantive area).

Note: students who wish to intern in a human services agency must take SOC 301 and 302

Applied Social Research Track Prerequisites: Grade of C or better in [SOC 151](#), [320](#), [460](#), [461](#), and 6cr within your substantive area

Sociology of Disability Services Track Prerequisites: Grade of C or better in [SOC 151](#), [301](#), [302](#), [320](#), [452](#), [EDEX 111](#)

A supervised experience in a public or private organization that extends and complements coursework at the university.

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Health and Physical Education (HPED)

Department of Health and Physical Education
College of Health and Human Services

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

HPED 117 Fitness-Swimming	HPED 325 School and Community Health
HPED 124 Fitness Through Dance	HPED 333 Psychology of Coaching
HPED 126 Resistive Exercises	HPED 335 Athletic Coaching
HPED 128 Golf	HPED 341 Evaluation in Health and Physical Education
HPED 142 Foundations of Health, Physical Education, and Sport	HPED 343 Physiology of Exercise
HPED 143 Health and Wellness	HPED 344 Adapted Physical Activity and Sport
HPED 145 Tennis	HPED 345 Athletic Training
HPED 162 Scuba Diving	HPED 346 Athletic Training Lab
HPED 165 Lifeguarding	HPED 350 Health Aspects of Aging
HPED 166 Basic Smallcraft	HPED 353 Driver Education Program Management
HPED 175 Prevention and Care of Injuries to the Physically Active	HPED 354 Application of Driver Education Instructional Modes
HPED 200 Fundamentals of Physical Activity	HPED 365 Advanced Athletic Training
HPED 209 Motor Behavior	HPED 370 Adapted Health and Physical Education
HPED 210 Motor Development	HPED 372 Health and Physical Education for Special Populations
HPED 214 Teaching Health Fitness and Gymnastics	HPED 375 Physiological Basis of Strength Training
HPED 215 Teaching Rhythmic Activities and Dance	HPED 376 Athletic Training Clinical Practicum I
HPED 216 Teaching Elementary Physical Education	HPED 377 Athletic Training Clinical Practicum II
HPED 217 Teaching Middle School Physical Education	HPED 380 Seminar in Sports Medicine
HPED 218 Teaching Secondary Physical Education	HPED 385 General Medical Conditions in Athletic Training
HPED 221 Human Structure and Function	HPED 408 Guided Research Problem
HPED 230 Aerobic Fitness	HPED 410 Exercise Prescription
HPED 242 Emergency Health Care	HPED 411 Physical Fitness Appraisal
HPED 251 Foundations of Safety and Emergency Health Care	HPED 412 Physical Activity and Stress Management
HPED 252 Introduction to the Driving Task	HPED 413 Physical Activity and Aging
HPED 261 Water Safety Instructor	HPED 426 Health Science Instruction
HPED 263 Aquatics	HPED 430 The American Woman and Sport
HPED 264 Advanced Aquatics	HPED 441 Psychosocial Implications for Health and Physical Education
HPED 270 Instructor of Handicapped Swimming	HPED 442 Senior Seminar: Professional Development in Health, Physical Education, and Sport
HPED 271 Instructor of Scuba Diving	HPED 445 Business Practices in Sport

HPED 272 Instructor of Canoeing	HPED 446 Therapeutic Modalities
HPED 273 Instructor of Sailing	HPED 447 Cardiopulmonary Resuscitation (CPR) Instructor
HPED 274 Instructor of Infants and Preschoolers in Swimming	HPED 448 Therapeutic Exercises for Athletic Injury Management
HPED 276 Coaching of Swimming	HPED 450 Curriculum and Programming in Sexuality Education
HPED 279 Swimming Pool Maintenance and Chemistry	HPED 460 Law and Issues in Managing Sport
HPED 280 Aquatic Facilities Management	HPED 476 Athletic Training Clinical Practicum III
HPED 281 Special Topics	HPED 477 Athletic Training Clinical Practicum IV
HPED 292 Introduction to Sport Management	HPED 481 Special Topics
HPED 315 Biomechanics	HPED 482 Independent Study
HPED 316 Teaching Elementary Health Education	HPED 485 Student Assistance Program Training
HPED 318 Preprofessional Experience I	HPED 492 Health Fitness Instruction
HPED 319 Preprofessional Experience II	HPED 493 Internship
HPED 320 Managing Facilities and Events in Sport	

HPED 117 Fitness–Swimming

0c-2l-1cr

Fundamentals and techniques of swimming and fitness.

HPED 124 Fitness Through Dance

0c-2l-1cr

A physical fitness development course for men and women that employs a combination of exercises and dance techniques performed to music.

HPED 126 Resistive Exercises

0c-2l-1cr

Fundamentals and techniques of progressive resistive exercises.

HPED 128 Golf

0c-2l-1cr

Fundamentals and techniques of golf.

HPED 142 Foundations of Health, Physical Education, and Sport

3c-0l-3cr

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.

HPED 143 Health and Wellness

3c-0l-3cr

Introduces 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. Successful completion fulfills the Liberal Studies Health and Wellness requirement.

HPED 145 Tennis

0c-2l-1cr

Fundamentals and techniques of tennis.

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HPED 162 Scuba Diving

0c-2l-1cr

Teaches 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-21-1cr

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.

HPED 166 Basic Smallcraft

0c-21-1cr

Prerequisite: Intermediate swimming ability

Introduces the use of the canoe, paddle board, and sailboat. Emphasizes 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-01-2cr

General information is presented related to the prevention, recognition, and care of both acute and chronic injuries common to participants of physical activity/fitness, and athletics. Topics include prevention techniques, the classification and staging of injury conditions, and basic evaluation techniques, as well as emergency management and follow-up care procedures.

HPED 200 Fundamentals of Physical Activity

1c-21-1cr

A foundation course 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. Provides the opportunity to refine powers of observation through principles of efficient and effective movement fundamentals. Individual data profile charts of performance are completed for future reference.

HPED 209 Motor Behavior

3c-01-3cr

A study of the process of human motor behavior across the lifespan, specifically examining how development of mental and motor abilities affects human movement.

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HPED 210 Motor Development

2c-01-2cr

Corequisite: [HPED 200](#)

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 214 Teaching Health Fitness and Gymnastics

1c-21-1cr

Prerequisite: [HPED 200](#)

Provides the health and physical educator with an overview of the fundamentals and techniques of instructing personal fitness and gymnastics. Includes opportunities for skill development, analysis, and strategies for incorporating fitness and gymnastics into the physical education curriculum.

HPED 215 Teaching Rhythmic Activities and Dance

1c-21-1cr

Prerequisite: [HPED 200](#)

Provides an aesthetic and kinesthetic movement experience that prepares the student a teacher of basic movement in a variety of situations. Includes creative movement, rhythms, and square, folk, and contemporary dance.

HPED 216 Teaching Elementary Physical Education

2c-21-2cr

Prerequisites: [EDSP 102](#), [HPED 142](#)

An introduction to instructional methods in physical education with an emphasis on program standards, objectives, and assessments for kindergarten through fifth grade. Provides an overview of characteristics of elementary school children and appropriate activities for this age group. Includes opportunities to improve personal skills, develop units, and teach peers and school-age children.

HPED 217 Teaching Middle School Physical Education

2c-21-2cr

Prerequisites: [EDSP 102](#), [HPED 142](#)

An introduction to instructional methods in physical education with an emphasis on program standards, objectives, and assessments for sixth through eighth grades. Provides an overview of characteristics of middle school children and appropriate activities for this age group. Includes opportunities to improve personal skills, develop units, and teach peers and school-age children.

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HPED 218 Teaching Secondary Physical Education

2c-21-2cr

Prerequisites: [EDSP 102](#), [EDUC 242](#), [HPED 142](#)

An introduction to instructional methods in physical education with an emphasis on program standards, objectives, and assessments for ninth through twelfth grades. Provides an overview of characteristics of high school students and appropriate activities for this age group. Includes opportunities to improve personal skills, develop units, and teach peers and secondary school students.

HPED 221 Human Structure and Function

3c-01-3cr

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-21-2cr

An opportunity to participate in a variety of aerobic activities; aids fitness leaders in developing and implementing several types of aerobic programs; offers current information on aerobics as preventive medicine.

HPED 242 Emergency Health Care

1c-21-1cr

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-01-3cr

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.

HPED 252 Introduction to the Driving Task

2c-21-3cr

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

1c-21-1cr

Prerequisites: Basic swimming skills

Students learn to teach children and adults basic swimming and water safety skills. Emphasis placed upon proper body mechanics and teaching progressions. Students have opportunity to earn American Red Cross Water Safety Instructor certification upon successful completion of course requirements.

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HPED 263 Aquatics

0c-21-1cr

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.

HPED 264 Advanced Aquatics

0c-21-1cr

Swimming and rescue skills necessary to complete American Red Cross Senior Lifesaving Course. Emphasizes a broad range of other aquatic experiences and teaching strategies.

HPED 270 Instructor of Handicapped Swimming

0c-2l-1cr

Prerequisite: [HPED 261](#)

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. Taught in the Summer only.

HPED 271 Instructor of Scuba Diving

0c-2l-1cr

Prerequisite: HPED 262

Prepares instructors to teach skin and scuba diving. Emphasizes 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. Taught in the Summer only.

HPED 272 Instructor of Canoeing

0c-2l-1cr

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. Taught in the Summer only.

HPED 273 Instructor of Sailing

0c-2l-1cr

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. Taught in the Summer only.

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HPED 274 Instructor of Infants and Preschoolers in Swimming

0c-2l-1cr

Prerequisites: [HPED 261](#), instructor permission

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. Taught in the Summer only.

HPED 276 Coaching of Swimming

0c-2l-1cr

Prerequisite: [HPED 261](#)

A lecture-discussion methods course to prepare Health and Physical Education majors for coaching of swimming. Emphasizes training methods, officiating, nutrition, scientific principles, and meet strategy. Taught in the Summer only.

HPED 279 Swimming Pool Maintenance and Chemistry

2c-0l-2cr

Prerequisite: [HPED 264](#)

A lecture-discussion course to teach fundamental water chemistry, filtration, treatment of water problems, winterization of outdoor pools, and pool management. Emphasizes water testing and analysis of chemicals and bacteria. Taught in the Summer only.

HPED 280 Aquatic Facilities Management

2c-0l-2cr

An organizational and administrative course to prepare the aquatic professional for management of indoor and outdoor facilities. Includes facility design, safety procedures activity, and sport and recreational aspects.

HPED 281 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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.

HPED 292 Introduction to Sport Management

3c-01-3cr

Introduces theories and practices in the field of sport management. Emphasizes management principles, leadership competencies, ethical principles, and governance in the sport industry. An introduction of sport marketing, sport finance, and sport law is provided.

HPED 315 Biomechanics

3c-01-3cr

Prerequisite: [HPED 221](#)

A study of the relationship between mechanical and physical principles and human movement.

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HPED 316 Teaching Elementary Health Education

2c-01-2cr

Prerequisites: [EDSP 102](#), [HPED 142](#)

Introduces the theories of instruction and methods for teaching health education to elementary school students. Identifies developmentally appropriate teaching methods and activities, reviews and assesses current health curriculum, and demonstrates the use of technology in the health classroom. Provides opportunities for observation, lesson planning, and teaching in both rural and inner city health education classrooms.

HPED 318 Preprofessional Experience I

3c-01-1cr

Prerequisite: [EDUC 242](#), [HPED 216](#), HPED 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. Emphasizes unit development, class management, leadership skills, and evaluation.

HPED 319 Preprofessional Experience II

var-3cr

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 320 Managing Facilities and Events in Sport

3c-01-3cr

Investigates the management functions necessary to operate a variety of sport facilities. Emphasizes liability risk reduction, staffing, design and renovation, maintenance, and amenities pertinent to sport facilities. Strategies for managing a sporting event are presented and practiced.

HPED 325 School and Community Health

3c-01-3cr

Prerequisite: [HPED 142](#)

Introduces the role of school and community in protecting and promoting the health of its members. Includes 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-01-2cr

The goals of athletics in schools and communities; principles and responsibilities of the coach; current problems.

HPED 335 Athletic Coaching

3c-01-3cr

A lecture course 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 the coach, 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-01-3cr

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-01-3cr

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 Activity and Sport

3c-01-3cr

Prerequisite: [HPED 209](#), [221](#)

Recognition of structural deviations, corrective exercises, physical activity, and sport for individuals with a wide range of disabilities.

HPED 345 Athletic Training

3c-01-3cr

Prerequisite: [HPED 221](#) 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-21-1cr

Corequisite: [HPED 345](#)

Develops basic athletic training skills for the beginning and intermediate athletic training student. Emphasizes 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-01-3cr

Prerequisites: [PSYC 101](#), [SOC 151](#), and junior standing

Current theory and research related to gerontology are introduced to increase understanding of the physical and psychosocial dimensions of aging. Additionally, emphasizes 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-01-3cr

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 meets with student, parent, school, and community approval.

HPED 354 Application of Driver Education Instructional Modes

2c-21-3cr

Prerequisites: [HPED 251](#), [252](#), [353](#)

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-21-4cr

Prerequisites: [HPED 345](#), [346](#)

Teaches assessment procedures, evaluation methods, and proper athletic training protocol for neuromuscular and skeletal muscle injuries. In addition, administrative issues in athletic training are addressed emphasizing accurate medical documentation. Emphasizes subjective and objective assessment and documentation of findings.

HPED 370 Adapted Health and Physical Education

3c-01-3cr

Prerequisites: [HPED 210](#), [EDSP 102](#); at least one of the following: [HPED 214](#), [215](#), [216](#), [217](#), [218](#), or [316](#)

Introduces the educational issues and methods used to effectively instruct students with disabilities and other issues that become barriers to learning. Includes a study of current laws and guidelines regarding the legal rights of students with disabilities and their parents. Identifies low and high incidence of disabilities, recognitions of structural deviation, and corrective exercises. Introduces instructional adaptations to facilitate learning in the health classroom and gymnasium.

HPED 372 Health and Physical Education for Special Populations

2c-01-2cr

Prerequisites: [EDEX 112](#), junior level or above

Methods and techniques of teaching health and physical education to special populations are explored. Designed primarily for students majoring in special education. Focuses on handicapping conditions, limitations imposed by such conditions, and the responsibility of the special education teacher working in the physical education setting.

HPED 375 Physiological Basis of Strength Training

3c-01-3cr

Gives the anatomical and physiological basis of muscle function. Students 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.

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HPED 376 Athletic Training Clinical Practicum I

0c-21-1cr

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 allows an opportunity to practice and apply skills taught 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-21-1cr

Prerequisite: [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 allows an opportunity to practice and apply skills taught 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 380 Seminar in Sports Medicine

2c-01-2cr

Prerequisite: [HPED 345](#) or instructor permission

Presents comprehensive instruction in such areas as health care administration, pharmacology, radiology, technological advances in sports medicine, and other contemporary issues.

HPED 385 General Medical Conditions in Athletic Training

2c-01-2cr

Prerequisites: [HPED 345](#) and [365](#) or instructor permission

Provides an overview of general health assessment and physical examination techniques related to the physically active. A systemic approach will be used to address issues related to the anatomy, pathology, physiology, and diagnostic testing of both general conditions and diseases of the human body in physically active individuals and individuals with disabilities.

HPED 408 Guided Research Problem

var-2cr

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-01-3cr

Prerequisite: [HPED 343](#)

Teaches 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-01-3cr

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-01-3cr

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-01-3cr

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.

HPED 426 Health Science Instruction

3c-01-3cr

Prerequisite: [HPED 316](#), [EDUC 242](#), admission to teacher education program

An overview of health curriculum K-12, with a focus on middle school and secondary health education teaching methods and media of instruction. Includes unit development, opportunities for classroom instruction, and guidelines for maintaining professional growth. Explores current research in classroom techniques, motivational strategies, and assessment of student learning.

HPED 430 The American Woman and Sport

3c-01-3cr

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-01-3cr

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 Senior Seminar: Professional Development in Health, Physical Education, and Sport

3c-01-3cr

Prerequisite: 90cr completed

For majors of Health, Physical Education, and Sport. Related to professional development issues and transition from college graduate to entry-level professional. Includes development of an electronic portfolio, assessment of postgraduation educational opportunities, and exploration of information literacy.

HPED 445 Business Practices in Sport

3c-01-3cr

Prerequisite: [HPED 292](#), [320](#)

Focuses on the application of business practices to operate a successful sports organization. Topics emphasized are promotion in sport, sport marketing, financing a sports organization, sport sponsorships, sales practices, public relations strategies, and media interaction. The unique application to the sport industry will be emphasized.

HPED 446 Therapeutic Modalities

3c-21-4cr

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 are presented highlighting the physiological effects of each modality, as well as indications and contraindications for their use.

HPED 447 Cardiopulmonary Resuscitation (CPR) Instructor

1c-11-1cr

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. Taught in the Summer only.

HPED 448 Therapeutic Exercises for Athletic Injury Management

3c-2l-4cr

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-0l-3cr

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 460 Law and Issues in Managing Sport

2c-0l-2cr

Prerequisite: [HPED 292](#)

Emphasizes the interaction between the legal system and the sport industry. Topics include liability risk management, contracts, torts, sports agents, dispute resolution, and product liability. A focus on the influence of Title IX, antitrust exemption, religion, drug testing, and ergogenic aids on sport operations.

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HPED 476 Athletic Training Clinical Practicum III

0c-2l-1cr

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 allows an opportunity to practice and apply skills 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, recordkeeping, planning, budgeting and purchasing, facility design, policies/procedures, and other athletic health care managerial/administrative duties. Athletic training instruction and guidance skills are also addressed. Restricted to students seeking certification by the National Athletic Trainers Association.

HPED 477 Athletic Training Clinical Practicum IV

0c-2l-1cr

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 allows an opportunity to practice and apply skills 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.

HPED 481 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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-1-3cr

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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HPED 485 Student Assistance Program Training

3c-0l-3cr

Prerequisites: Junior standing and [EDSP 102](#)

Introduces 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 492 Health Fitness Instruction

3c-01-3cr

Prerequisites: [HPED 221](#), [343](#), [411](#) or equivalent

Students acquire the knowledge, skills, and abilities required to develop programs of physical activity and fitness for healthy adults and those with controlled disease. Experience in leading an exercise class, knowledge of functional anatomy, and exercise physiology is also expected prior to participation in the class.

HPED 493 Internship

var-3-12cr

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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Food and Nutrition (FDNT)

Department of Food and Nutrition
College of Health and Human Services

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

FDNT 110 Careers in Food and Nutrition	FDNT 430 Professional Topics in Food and Nutrition
FDNT 143 Nutrition and Wellness	FDNT 444 Food Composition and Biochemistry
FDNT 145 Introduction to Nutrition	FDNT 447 Nutritional Aspects of Food Technology
FDNT 150 Foods	FDNT 455 Nutrition in Disease II
FDNT 151 Foods Laboratory	FDNT 458 Advanced Human Nutrition
FDNT 212 Nutrition	FDNT 461 Microwave Cooking Technology
FDNT 213 Life Cycle Nutrition	FDNT 462 Advanced Experimental Foods
FDNT 245 Sports Nutrition	FDNT 463 Nutrition Counseling
FDNT 281 Special Topics	FDNT 464 Food and Nutrition Research Methods
FDNT 355 Nutrition in Disease I	FDNT 470 Human Food Consumption Patterns
FDNT 357 Special Problems in Foods	FDNT 481 Special Topics
FDNT 362 Experimental Foods	FDNT 482 Independent Study
FDNT 364 Methods of Teaching	FDNT 484 Senior Seminar
FDNT 402 Community Nutrition	FDNT 493 Internship
FDNT 410 Food, Nutrition, and Aging	

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.

FDNT 110 Careers in Food and Nutrition

1c-0l-1cr

Career possibilities for nutrition majors are explored. Students are guided in clarifying their professional goals and become acquainted with the educational and experiential requirements necessary to attain these goals.

FDNT 143 Nutrition and Wellness

3c-0l-3cr

Introduces 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-0l-3cr

Provides 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-0l-3cr

Prerequisite: [CHEM 101](#) or [111](#)**Corequisite:** [FDNT 151](#)

Basic principles of food: composition, sanitation, preparation, and preservation.

FDNT 151 Foods Laboratory

1c-3l-1cr

Corequisite: [FDNT 150](#)

Application of basic principles of food preparation.

FDNT 212 Nutrition

3c-0l-3cr

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.

FDNT 213 Life Cycle Nutrition

3c-0l-3cr

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-0l-3cr

Prerequisite: [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-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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-0l-3cr

Prerequisites: [FDNT 212](#), [BIOL 155](#) or [150-151](#)

Basic tools for diet modification: food exchange systems; interviewing techniques; nutrition assessment; professional practice; dietary treatment of caloric imbalance, diabetes, and cardiovascular disease. Taught Fall semester only.

FDNT 357 Special Problems in Foods

0c-4l-3cr

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-3l-3cr

Prerequisites: [FDNT 150](#), [355](#) or concurrently, [MATH 217](#)

The experimental study of foods, relating chemical and physical properties to reactions and processes occurring in food systems.

FDNT 364 Methods of Teaching

3c-0l-3cr

Prerequisite: [FDNT 213](#)

Current teaching techniques and resource materials in nutrition education are emphasized. Emphasizes all forms of nutrition education, including classroom instruction, in-service training of employees, and community-based education.

FDNT 402 Community Nutrition

3c-01-3cr

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. Taught Spring semester only.

FDNT 410 Food, Nutrition, and Aging

3c-01-3cr

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-01-3cr

Prerequisites: [FDNT 355](#), [364](#), [HRIM 256](#), 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-01-3cr

Prerequisite: [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-01-3cr

Prerequisites: [BIOL 241](#) and [FDNT 212](#); junior status

A study of current known effects of food processing techniques on the nutritional value and safety of foods.

FDNT 455 Nutrition in Disease II

3c-01-3cr

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. Taught Spring semester only.

FDNT 458 Advanced Human Nutrition

4c-01-4cr

Prerequisites: [CHEM 255](#) or [351](#), [FDNT 355](#), [MATH 217](#)

An 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. Emphasizes applying current research and evaluation of research methodology. (Does not count toward M.S. Food and Nutrition degree requirements)

FDNT 461 Microwave Cooking Technology

2c-21-3cr

The study of the electronic technology, selection, care, and use of the microwave oven. Includes basic physical and chemical concepts related to microwave cooking. Individual investigative research problems are required.

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FDNT 462 Advanced Experimental Foods

1c-41-3cr

Prerequisites: [CHEM 231](#), [FDNT 362](#)

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-31-3cr

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-01-3cr

Prerequisites: [CHEM 351](#), [FDNT 362](#), [458](#), 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.

FDNT 470 Human Food Consumption Patterns

3c-01-3cr

Prerequisites: One social science course and junior standing

An exploration of human food consumption behaviors from food production to individual and societal consumption patterns. Influencing factors discussed include agronomic, economic, geographic, sociologic, nutritional, political, and psychological factors. The ethics and morality of food distribution are discussed. Students may not enroll in this course if they have taken the corresponding section of [LBST 499](#).

FDNT 481 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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-1-6cr

Prerequisites: Prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office; must have earned 60cr. 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-01-1cr

Prerequisite: Senior status

Emphasizes individual review of food and nutrition literature with formal presentation and discussion of current research.

FDNT 493 Internship

var-6-12cr

Prerequisite: Must have earned 57cr

An opportunity 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.

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Nursing (NURS)

Department of Nursing and Allied Health Professions
College of Health and Human Services

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

NURS 101 Disaster Awareness	NURS 407 Skills for Professional Success
NURS 143 Healthy People	NURS 411 Advanced Health Assessment
NURS 202 Foundations of Child Health	NURS 412 Professional Nursing III
NURS 211 Nursing Practice I	NURS 432 Psychiatric/Mental Health
NURS 212 Professional Nursing I	NURS 434 Community Health
NURS 213 Nursing Practice II	NURS 435 Community and Psychiatric/Mental Health Clinical
NURS 214 Health Assessment	NURS 436 Adult Health II
NURS 236 Foundations of Nursing	NURS 437 Adult Health Clinical II
NURS 281 Special Topics	NURS 450 A Cognitive Approach to Clinical Problem Solving
NURS 306 Problem Solving in Nursing	NURS 454 Health Promotion of Families Across the Lifespan
NURS 312 Professional Nursing II	NURS 455 Introduction to Nursing Informatics
NURS 316 Research Utilization in Nursing	NURS 467 Leadership Practicum
NURS 334 Transitions in Professional Nursing	NURS 469 Community Health Practicum
NURS 336 Adult Health I	NURS 480 Seminar in Nursing
NURS 337 Adult Health Clinical I	NURS 481 Special Topics
NURS 338 Maternal-Child Health	NURS 482 Independent Study
NURS 339 Maternal-Child Health Clinical	NURS 493 Internship

NURS 101 Disaster Awareness

1c-0l-1cr

Provides a basic understanding of the essentials of disaster planning, responding to mass casualty incidents, and postdisaster restoration of basic public health. Introduces a basic overview of health issues caused by biological, chemical, explosive, and natural disasters.

NURS 143 Healthy People

3c-0l-3cr

Advances knowledge of health promotion and illness prevention concepts and examines health disparities across segments of the population. The determinants of health, health status assessment, and the nation's leading health indicators will be emphasized. Students will be guided in the development of a personal wellness program.

NURS 202 Foundations of Child Health

3c-0l-3cr

Focuses on conditions that affect the health of children. Provides an overview of the structure and function of selected body systems. Emphasizes the development of each system during infancy and childhood. The impact of common acute and chronic diseases on children is incorporated. Health promotion concepts are addressed.

NURS 211 Nursing Practice I

0c-3l-1cr

Prerequisite: Sophomore standing

Prerequisites or Corequisites: [BIOL 105](#), [150](#) or [151](#)

The first of two clinical courses that present the concepts and abilities fundamental to the practice of professional nursing and provide a foundation on which students can build their professional knowledge base as well as their interpersonal and psychomotor skills. Clinical assignments in a variety of settings provide opportunities for students to develop basic clinical practice skills.

NURS 212 Professional Nursing I

2c-01-2cr

Prerequisite: Sophomore standing

Introduces the discipline of nursing and values that are fundamental to practice. Caring as a concept central to the practice of professional nursing provides the framework for examining the values of the profession. Human diversity and the effects that culture, socioeconomics, ethnicity, and religion have on health status and response to health care are studied. An overview of the healthcare system in the United States and an examination of access issues. As a foundation for client contact in subsequent courses, students learn therapeutic communication skills and theory related to teaching and learning. Service/learning and team-building experiences are an integral component.

NURS 213 Nursing Practice II

0c-31-1cr

Prerequisites: [NURS 211](#), [212](#)

Corequisites: [NURS 214](#), [236](#)

Builds on Nursing Practice I and provides opportunities to continue to build professional knowledge and skills with diverse individuals and families in a variety of settings. Emphasizes developing ability to perform health assessments, using therapeutic communication, and executing basic nursing skills while promoting healthy behaviors.

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NURS 214 Health Assessment

2c-01-2cr

Prerequisites: [BIOL 150](#) or [151](#), [NURS 211](#), or permission

Prerequisite or Corequisite: [BIOL 150](#) or [151](#)

Corequisite: [NURS 213](#), [236](#), or permission

Introduces basic health assessment, which is a systematic method of data collection, organization, and validation for the purpose of determining a client's health status. Involves assessment of clients across the life span. Emphasizes assessment of client needs that affect the total person, which is consistent with nursing's holistic approach to client care. Methods of data collection used for health assessments include observing, interviewing, and examination. Students learn to apply these methods effectively in order to gather accurate and complete assessments.

NURS 236 Foundations of Nursing

3c-01-3cr

Prerequisites: [CHEM 102](#), [NURS 212](#)

Corequisites: [NURS 213](#), [214](#)

Introduces fundamental nursing concepts that apply to the practice of professional nursing with individuals. Topics include nursing theories related to professional practice, elements of holistic care, promotion of psychosocial and physiologic health, and application of pharmacology in nursing practice.

NURS 281 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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 306 Problem Solving in Nursing

3c-01-3cr

Provides opportunities to recognize and develop intervention strategies for problem solving in clinical nursing situations. Emphasizes developing application and analysis skills required for success in the nursing program.

NURS 312 Professional Nursing II

2c-01-2cr

Prerequisite: [NURS 212](#) or permission

Corequisite: [NURS 337](#) or [339](#) or permission

Provides a working knowledge of the values, code of ethics, ethical principles, professional standards, and legal framework that govern clinical decisions, determine professional conduct, and guide interactions with clients, families, colleagues, and other health care providers. Students

formulate an ethical decision-making framework that, by incorporating personal values, professional values, moral concepts, and legal mandates, serves as a guide to professional practice. Using a problem-based approach, they study legal and ethical frameworks that guide professional practice and relate/apply these to actual clinical situations.

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NURS 316 Research Utilization in Nursing

3c-01-3cr

Prerequisite: [NURS 236](#) or permission

Prerequisites or Corequisites: [ENGL 202](#), [MATH 217](#)

Focuses on understanding and critiquing nursing research. Emphasizes understanding the research process and applying research findings to practice. Students describe the various stages of the research process and apply these steps to evaluate clinical nursing research problems. Focuses on developing the necessary skills to engage in scholarly research writing.

NURS 334 Transitions in Professional Nursing

3c-01-3cr

Prerequisite or Corequisite: [ENGL 202](#)

Corequisite: Licensed Practical Nurse or Registered Nurse

Explores the dynamic nature of health and its impact on the practice of nursing. Nursing theories, concepts, and issues related to nursing practice are analyzed. Linkages among theory, research, and practice are explored for relevance and utility. (Writing-intensive course)

NURS 336 Adult Health I

4c-01-4cr

Prerequisites: [FDNT 212](#), [NURS 236](#), or permission

Prerequisite or Corequisite: [NURS 316](#)

Corequisite: [NURS 337](#)

Introduces disease processes and treatment regimens and examines their impact on adults throughout their life span. Emphasizes increasing student knowledge about assessing human responses to changes in health, determining appropriate nursing interventions, and identifying the physiological and psychosocial basis for nursing actions.

NURS 337 Adult Health Clinical I

0c-151-5cr

Prerequisites: [FDNT 212](#), [NURS 236](#), or permission

Prerequisite or Corequisite: [NURS 316](#)

Corequisite: [NURS 336](#)

Provides opportunities to apply the nursing process with adults and aging families in a variety of settings. Emphasizes increasing the ability to perform comprehensive health assessments and to use assessment data to identify problems, intervene, and evaluate care. Students learn to function as members of the health care team, identify discharge-planning needs, and differentiate between collaborative and independent nursing activities. Service learning is a component of the course.

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NURS 338 Maternal-Child Health

4c-01-4cr

Prerequisites: [FDNT 212](#), [NURS 236](#), [PSYC 310](#), or permission

Prerequisite or Corequisite: [NURS 316](#)

Corequisite: [NURS 339](#)

Focuses on knowledge essential to provide nursing care for pregnant women and their children within a family context. The first half of the course emphasizes the changes experienced by the woman and family during normal and complicated pregnancy as well as those of the developing fetus and neonate. The second half focuses on acute and chronic health problems of infants, children, and adolescents.

NURS 339 Maternal-Child Health Clinical

0c-151-5cr

Prerequisites: [FDNT 212](#), [NURS 236](#), [PSYC 310](#), or permission

Prerequisite or Corequisite: [NURS 316](#)

Corequisite: [NURS 338](#)

Provides clinical learning experiences designed to enable students to provide nursing care for primary prevention/intervention with child-bearing families and with children and secondary prevention with women, children, and their families. These experiences are planned in a variety of ambulatory, community, and acute-care settings to enable the student to develop core values, knowledge, competencies, and skills associated with nursing care of mothers, children, and their families.

NURS 407 Skills for Professional Success

1c-01-1cr

Prerequisite: Must be enrolled in senior-level nursing courses

A 1cr elective for senior nursing majors designed to help foster clinical judgment skills by focusing on critical thinking and test-taking. Emphasizes preparing students with the skills that are essential for success on the National Council Licensure Examination for Registered Nurses (NCLEX-RN).

NURS 411 Advanced Health Assessment

2c-31-3cr

Prerequisites: Registered Nurse or permission

This clinical course builds upon the basic assessment techniques of the registered nurse. Provides the student with the ability to assess the health status of adults. Enables the student to collect a comprehensive health history and perform complete physical examination on adults from various backgrounds. Focuses on examination techniques and identification of deviations from normal.

NURS 412 Professional Nursing III

2c-01-2cr

Prerequisites: [NURS 312](#), [337](#), [339](#) or permission

Corequisites: [NURS 432](#), [434](#), and [435](#) or [436](#) and [437](#), or permission

The professional nurse is expected to use clinical, managerial, and personal leadership skills to ensure the delivery of high-quality, cost-effective care in divergent health care delivery systems. The study of leadership and management skills and processes are approached as inherent elements for all levels of nursing practice. The role of designer/manager/coordinator of care in professional nursing is examined in depth.

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NURS 432 Psychiatric/Mental Health

2c-01-2cr

Prerequisites: [NURS 336](#), [337](#), [338](#), [339](#) or permission

Prerequisites or Corequisites: [NURS 412](#), [434](#), [435](#)

Focuses on the principles and concepts that guide nursing practice in a variety of psychiatric/mental health settings. The role of the nurse in primary, secondary, and tertiary prevention/intervention is addressed as it relates to individuals, families, and aggregates.

NURS 434 Community Health

2c-01-2cr

Prerequisites: [NURS 336](#), [337](#), [338](#), [339](#) or permission

Prerequisites or Corequisites: [NURS 412](#), [432](#), [435](#) or permission

Focuses on nursing care that is population and community oriented. Emphasizes the community as a client, perspectives and influences of the health care delivery systems, theoretical frameworks applicable to community health, contemporary issues in community health nursing, and nursing roles as designers, managers, and coordinators of care in the community.

NURS 435 Community and Psychiatric/Mental Health Clinical

0c-151-5cr

Prerequisites: [NURS 336](#), [337](#), [338](#), [339](#) or permission

Prerequisite or Corequisite: [NURS 412](#), [432](#), [434](#)

Focuses on community-based and community health nursing experiences to enable students to provide health promotion, risk reduction, and disease prevention in a wide variety of community settings and with diverse populations. Students will also have experiences within acute and community-based psychiatric care facilities, working as members of a multidisciplinary team to provide primary, secondary, and tertiary prevention/intervention. Emphases are also on nursing management and development of nursing strategies to assist at-risk families, aggregates, and groups, while considering health care on a continuum throughout the life span. Opportunities for individual mentoring in a clinical area are an integral part of the course.

NURS 436 Adult Health II

4c-01-4cr

Prerequisites: [NURS 336](#), [337](#), [338](#), [339](#) or permission

Prerequisite or Corequisite: [NURS 412](#)

Corequisite: [NURS 437](#)

Builds on Adult Health I, focusing on the adult/family coping with complex health problems. The relationships among disease states, treatment, and associated nursing responsibilities are emphasized as students build their knowledge base of pharmacology, therapeutic procedures, rehabilitation needs, and teaching-learning strategies. Principles underlying the use of technology in clinical practice provide a basis for the concurrent clinical course.

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NURS 437 Adult Health Clinical II

0c-15l-5cr

Prerequisites: [NURS 336](#), [337](#), [338](#), [339](#) or permission

Corequisite: [NURS 436](#)

Prerequisite or Corequisite: [NURS 412](#)

Provides opportunities for clinical practice as a provider of care for complex, acutely ill clients in a variety of settings including intensive care unit, monitored units, medical-surgical units, and rehabilitation settings. Focuses on secondary prevention/intervention for long-term critically ill patients. Emphasizes the role of designer/manager/coordinator of care with opportunities to apply management principles and practice leadership skills in the acute care and rehabilitation setting. Opportunities to receive precepting with a Registered Nurse are an integral component.

NURS 450 A Cognitive Approach to Clinical Problem Solving

3c-0l-3cr

Prerequisite: [NURS 435](#) or [437](#)

Focuses on advanced clinical problem-solving and decision-making skills needed by professional nurses. Factors that influence clinical problem solving are examined to facilitate higher-level thinking in simulated clinical situations.

NURS 454 Health Promotion of Families Across the Lifespan

3c-0l-3cr

Prerequisite: [NURS 434](#)

The first part focuses on the underlying theories and frameworks for family structure, function, and assessment. The second part focuses on application and evaluation of families in the context of health promotion. The family is studied across the life span. Emphasizes family assessment and cultural diversity and the stressors that impact families during the various stages of life. Required to conduct a family assessment in the community.

NURS 455 Introduction to Nursing Informatics

3c-0l-3cr

Prerequisite: Registered Nurse or instructor permission

An introduction and overview in the application of the disciplines of nursing science, computer science, and information science in collecting, processing, and managing information to promote decision making in nursing.

NURS 467 Leadership Practicum

0c-6l-2cr

Prerequisite: [NURS 334](#)

Prerequisite or Corequisite: [NURS 412](#)

Focuses on role development in management and leadership for the Registered Nurse. Planned individualized experiences will afford opportunities to apply management and leadership theories in a workplace setting. Faculty members will guide the student in theory-based practice and synthesis of theory to practice experiences.

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NURS 469 Community Health Practicum

0c-6l-2cr

Prerequisite: [NURS 334](#)

Prerequisite or Corequisite: [NURS 434](#)

Allows the Registered Nurse to apply knowledge to the practice of community-based and community health nursing. Emphasizes health promotion, risk reduction, and disease prevention in a wide variety of community settings and with diverse populations.

NURS 480 Seminar in Nursing

var-1-3cr

A seminar which provides a forum for the exploration and discussion of issues relevant to the professional nurse. Emphasizes the development of professional values, critical thinking, decision-making, and communication skills. A selection of topics on current issues and trends is offered; each focuses on a particular theme related to nursing practice.

NURS 481 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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.

NURS 482 Independent Study

var-1-3cr

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-1-12cr

Prerequisites: [NURS 236](#) or Licensed Practical Nurse or Registered Nurse; 57cr completed; minimum 2.0 GPA

A supervised experience in a practice setting which extends and complements coursework in nursing. The types of practice settings may include acute care hospitals, outpatient health centers, and community agencies.

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Military Science (MLSC)

**Department of Military Science
Academic Affairs Division**

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

MLSC 101 Introduction to Military Science
MLSC 102 Fundamentals of Military Science
MLSC 203 Fundamentals of Tactical Operations, Techniques of Leadership, and Weapons Characteristics
MLSC 204 National Security and Fundamentals of Military Topography
MLSC 305 Fundamentals of Leadership and Modern Learning/Teaching Relationship
MLSC 306 Study of Advance Leader Planning and Execution of Modern Combat Operations
MLSC 407 Management of the Military Complex to Include Fundamentals of Military and International Law
MLSC 408 Seminar in Military Analysis and Management
Leadership Laboratory (one afternoon per week)
Summer Camp

MLSC 101 Introduction to Military Science

2c-11-2cr

A study of the organization of the United States Army and the role of the military in today's society. Emphasizes the customs and traditions of the service, the Total Army concept, and the fundamentals of leadership. Includes instruction in basic military skills, land navigation, and personal nutrition and fitness. Also, see Leadership Laboratory.

MLSC 102 Fundamentals of Military Science

2c-11-2cr

The study of the basic knowledge regarding military service and the profession of arms. Emphasizes basic military skills, first aid, and the development of leadership abilities through practical exercises. Includes instruction on offensive and defensive tactics, the Army writing style, and military briefings. Also, see Leadership Laboratory.

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MLSC 203 Fundamentals of Tactical Operations, Techniques of Leadership, and Weapons Characteristics

2c-11-2cr

Organization, techniques, resources, and capabilities involved in conducting small-unit tactical operations. Emphasizes 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.

MLSC 204 National Security and Fundamentals of Military Topography

2c-11-2cr

The study of national security concepts, policies, and national decision-making process with emphasis on national resources, national will, and economic factors. Includes 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 are covered. Also, see Leadership Laboratory.

MLSC 305 Fundamentals of Leadership and Modern Learning/Teaching Relationship

3c-11-3cr

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 Leadership Laboratory.

MLSC 306 Study of Advance Leader Planning and Execution of Modern Combat Operations

3c-11-3cr

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.

MLSC 407 Management of the Military Complex to Include Fundamentals of Military and International Law

3c-11-3cr

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 Leadership Laboratory.

MLSC 408 Seminar in Military Analysis and Management

3c-11-3cr

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 are presented as they relate to military justice, administration, and obligation and responsibilities of an officer. Also, see Leadership Laboratory.

Leadership Laboratory (one afternoon per week)

var-0cr

A practical experience designed for the attainment and application of leadership principles. Concurrently scheduled in conjunction with all Military Science courses, provides for practical challenges in personal accomplishment, both physical and mental, and for development of team work and leadership.

Summer Camp

var-0cr

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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Business and Technology Education (BTED)

Department of Technology Support and Training
Eberly College of Business and Information Technology

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

BTED 101 Microbased Computer Literacy
BTED 132 Computer Keyboarding and Formatting
BTED 201 Internet and Multimedia
BTED 281 Special Topics
BTED 293 Practicum: Computer and Information Technology (CIT)
BTED 309 Keyboarding for Educators
BTED 311 Methods in Business and Information Technology I
BTED 312 Methods in Business and Information Technology II
BTED 370 Technology Applications for Education
BTED 481 Special Topics
BTED 482 Independent Study

Note: Except for Accounting, Business Education, and nonbusiness majors who have met the required prerequisites, students scheduling 300 and 400 courses are expected to have achieved junior standing as described in the Eberly College of Business and Information Technology Academic Policies.

BTED 101 Microbased Computer Literacy

3c-0l-3cr

An introductory course designed to provide a fundamental understanding of computers. Familiarizes students with the interaction of computer hardware and software. Emphasizes the application of microcomputers, the use of productivity software (word processing, spreadsheet management, file and database management, presentation graphics, web browsers, search strategies, and e-mail), and the social and ethical aspects of the impact of computers on society. Note: cross-listed as COSC and IFMG 101. 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.

BTED 132 Computer Keyboarding and Formatting

3c-0l-3cr

Prerequisite: [BTED 309](#) or successful completion of proficiency exam

Focuses on the development of correct techniques in keyboarding. Emphasizes proofreading, formatting tabulations, business letters, business reports, business forms, rough drafts, and manuscripts; an additional emphasis on production, accuracy, and speed.

BTED 201 Internet and Multimedia

3c-0l-3cr

Prerequisite: [BTED/COSC/IFMG 101](#) or prior exposure to word processing and electronic mail

Focuses on the evaluation of information and multimedia resources available on electronic networks when doing research in an area of one's choice. 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 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. ([BTED/COMM/COSC/IFMG/LIBR 201](#) may be used interchangeably for D or F repeats and may not be counted for duplicate credit.)

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BTED 281 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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.

BTED 293 Practicum: Computer and Information Technology (CIT)

3c-01-3cr

Prerequisites: Completion of 45cr, to include all specialty and business core courses of the CIT major; 2.5 cumulative GPA, 2.75 GPA in the CIT program; and approvals of the CIT practicum coordinator, department chair, and academic dean

A culminating experience for CIT majors. A supervised work experience with an approved agency (business, industry, or government), designed to combine classroom theories and skills with job-related experiences. Works cooperatively with the CIT practicum coordinator and business agency representative to identify the appropriate work site and job responsibilities. A journal of experiences, periodic written reports, and a final report are the expected product.

BTED 309 Keyboarding for Educators

1c-01-1cr

Corequisite: [BTED 312](#)

Provides Business Education students with the fundamental skills to keyboard information quickly and accurately. Introduces the basic pedagogy of keyboarding in a K-12 classroom. Techniques of basic formatting, speed, and accuracy building are also covered. Course is open to Business Education majors only. (Offered as BTED 130 Keyboarding prior to 2003-04)

BTED 311 Methods in Business and Information Technology I

3c-01-3cr

Prerequisites: [EDSP 102](#), [PSYC 101](#), and completion of the freshman and sophomore courses in the student's major areas

Includes instruction in the general methods of teaching and evaluating business courses. Major emphasis is on the planning for instruction. Creative techniques and procedures for effectively teaching and managing the classroom are evaluated. Current issues in vocational education such as advisory committees, adult education, and federal legislation are included.

BTED 312 Methods in Business and Information Technology II

3c-01-3cr

Prerequisite: [BTED 311](#)

Corequisite: [BTED 309](#)

Emphasizes the development of methods and strategies for making effective classroom presentations and working with students in both the skill and cognitive areas. Opportunities are provided to undertake the many responsibilities assigned to the business classroom teacher.

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BTED 370 Technology Applications for Education

3c-01-3cr

Provides a prospective business educator with concepts, applications, and methodologies needed to be effective in today's classroom including advanced web page coding, advanced computer applications, creation of an inquiry-oriented activity in which the information that learners interact with comes from Internet resources, and a learned society's rules for records management. Also includes instruction in the pedagogy of computer applications. The end product will be additions to students' e-portfolios.

BTED 481 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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.

BTED 482 Independent Study

var-1-3cr

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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Child and Family Studies (CDFR)

Department of Human Development and Environmental Studies
College of Health and Human Services

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

CDFR 218 Child Development
CDFR 224 Marriage and Family Relations
CDFR 281 Special Topics
CDFR 310 Advanced Child Development
CDFR 321 Preschool Education: Developmentally Appropriate Practices
CDFR 322 Early Care and Education
CDFR 323 Family Issues
CDFR 325 Youth, Family, and Society
CDFR 410 Infant Development
CDFR 426 Techniques of Parent Education
CDFR 427 Administration of Child Development Centers
CDFR 428 Family Dynamics
CDFR 429 Teaching in Child Development Centers
CDFR 463 Family and the Community
CDFR 481 Special Topics
CDFR 482 Independent Study
CDFR 493 Internship

CDFR 218 Child Development

3c-0l-3cr

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.

CDFR 224 Marriage and Family Relations

3c-0l-3cr

Prerequisite: [PSYC 101](#)

Focuses on principles of human relations basic to marital decisions and adjustment. Explores influence of community and family experiences on personal development and adjustment.

CDFR 281 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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.

CDFR 310 Advanced Child Development

3c-01-3cr

Prerequisite: Grade of C or better in [CDFR 218](#)

A study of trends and research in the field of child development based on a review of major theorists and current literature. (Offered as CDFR 418 prior to 2006-07)

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CDFR 321 Preschool Education: Developmentally Appropriate Practices

3c-01-3cr

Prerequisite: Grade of C or better in [CDFR 218](#)

An examination of the child development philosophy as the basis for the developmentally appropriate decisions and methods in preschool education programming. Emphasizes play as a developmental process and as the major aspect of the preschool curriculum. May not be interchanged with ELED 353.

CDFR 322 Early Care and Education

3c-01-3cr

Prerequisite: Grade of C or better in [CDFR 218](#), [321](#)

Current educational theories and research reviewed in terms of implications for the preschool and their effect on materials, equipment, and activity selection. (Offered as CDFR 422 prior to 2006-07)

CDFR 323 Family Issues

3c-01-3cr

Prerequisite: Grade of C or better in [CDFR 224](#)

A concentrated study of selected areas of family life, with emphasis on current personal and social issues affecting the family. (Offered as CDFR 424 prior to 2006-07)

CDFR 325 Youth, Family, and Society

3c-01-3cr

Prerequisites: [CDFR 218](#), CDFR majors or by permission

Focuses on the parenting of adolescents and adolescents as parents. Special emphasis is given to identifying risk and resiliency factors when working with adolescents and families in the field of human services. A variety of human development theories are examined in an attempt to understand the adolescent from both an individual and a societal point of view.

CDFR 410 Infant Development

2c-21-3cr

Prerequisites: Grade of C or better in [CDFR 218](#) or equivalent, [CDFR 310](#), [321](#), and 322 and compliance with current agency regulations

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. (Offered as CDFR 317 prior to 2006-07)

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CDFR 426 Techniques of Parent Education

3c-01-3cr

Prerequisite: Grade of C or better in [CDFR 218](#), [321](#) or [ELED 215](#)

An 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.

CDFR 427 Administration of Child Development Centers

3c-01-3cr

Prerequisite: [CDFR 218](#) 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.

CDFR 428 Family Dynamics

3c-01-3cr

Prerequisite: Grade of C or better in [CDFR 224](#) or equivalent

Emphasizes processes and models of family development topics. Focuses on approaches and dynamics of principles related to familial and marital adjustment and coping. (Offered as CDFR 324 prior to 2006-07)

CDFR 429 Teaching in Child Development Centers

2c-4l-4cr

Prerequisites: Grade of C or better in [CDFR 218](#) or equivalent, [CDFR 310](#), [321](#), and [322](#) and compliance with current agency regulations
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. (Offered as CDFR 419 prior to 2006-07)

CDFR 463 Family and the Community

3c-0l-3cr

Prerequisites: Grade of C or better in [CDFR 218](#), [224](#), [310](#), [321](#), and [322](#)

A study of community agencies and problems that affect families and their contributions to community. An investigation of ways group dynamics, communication media, and other resources aid understanding of human behaviors. Field experience is an integral part of the course.

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CDFR 481 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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.

CDFR 482 Independent Study

var-1-3cr

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 3cr. Approval is based on academic appropriateness and availability of resources.

CDFR 493 Internship

var-6-12cr

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 a university faculty member who supervises the internship. Log and major paper required. May be repeated up to a total of 12cr; however, these credits are not applicable toward the 120cr required for graduation if student receives 12cr in student teaching.

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Consumer Affairs (CNSV)

Department of Human Development and Environmental Studies
College of Health and Human Services

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

CNSV 101 Personal and Family Management	CNSV 416 Problems in Family Finance
CNSV 281 Special Topics	CNSV 433 Study Tour
CNSV 299 Cooperative Education I	CNSV 481 Special Topics
CNSV 315 Consumer Economics and Family Finance	CNSV 482 Independent Study
CNSV 413 Problems in Consumer Economics	CNSV 493 Internship

CNSV 101 Personal and Family Management

3c-0l-3cr

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-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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.

CNSV 299 Cooperative Education I

0sh

Combines theory with practical application through job-related experiences. Consumer services majors are actively employed in business, industry, and a variety of organizations and agencies with a work focus which relates to their academic training and career objectives. First of two alternating work experiences required.

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CNSV 315 Consumer Economics and Family Finance

3c-0l-3cr

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-0l-3cr

Prerequisite: [CNSV 315](#) or Economics

Problems of consumer-seller relationships studied with an emphasis given to effects of current economic and social forces. Governmental and private protection agencies which aid the consumer are reviewed. Individual investigations required.

CNSV 416 Problems in Family Finance

3c-0l-3cr

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 to explore specific areas of interest.

CNSV 433 Study Tour

var-1-6cr

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 6cr. (Cross-listed as [FSMR/INDS 433](#))

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CNSV 481 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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-1-3cr

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 3cr. Students meet with a faculty member at least 5 hours per credit.

CNSV 493 Internship

var-1-12cr

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 12cr.

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Communications Media (COMM)

Department of Communications Media
College of Education and Educational Technology

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

COMM 101 Communications Media in American Society
COMM 103 Digital Instructional Technology
COMM 150 Aesthetics and Theory of Communications Media
COMM 201 Internet and Multimedia
COMM 205 Media Presentation Skills
COMM 230 Issues in International Communication
COMM 240 Communications Graphics
COMM 249 Basic Audio Recording Techniques
COMM 251 Television Production
COMM 271 Beginning Photography
COMM 281 Special Topics
COMM 302 Research in Communications Media
COMM 303 Scriptwriting
COMM 305 Electronic Media Programming and Sales
COMM 325 Women in Media
COMM 330 Instructional Design for Training and Development
COMM 335 Communications Consulting and Project Management
COMM 340 Advanced Communication Graphics
COMM 345 Television Criticism
COMM 349 Radio Production
COMM 351 Advanced Video Production
COMM 354 Broadcast Regulation
COMM 371 Photography II: The Print
COMM 375 Mass Media and Behavior
COMM 380 The History of African Americans in Film
COMM 390 Practicum in Communications
COMM 395 Career Planning in Communications Media
COMM 403 Broadcast Newswriting
COMM 405 Process of Digital Game Development
COMM 408 Media Field Studies
COMM 410 Promotion for Radio, Television, and Cable
COMM 440 Multimedia Production
COMM 445 Applications and Techniques of Motion Pictures

COMM 447 Animation
COMM 449 Advanced Audio Recording Techniques
COMM 451 Broadcast News Process
COMM 460 Emerging Trends in Communication Technology
COMM 470 Management Practices in Electronic Communications
COMM 471 Electronic Imaging
COMM 474 Documentary Photography
COMM 475 Senior Portfolio Presentation
COMM 480 Seminar in Communications Media
COMM 481 Special Topics
COMM 493 Internship

COMM 101 Communications Media in American Society

3c-0l-3cr
 Required of Communications Media majors. An introduction to the evolution, status, and future of communications media. Explores 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.

COMM 103 Digital Instructional Technology

3c-0l-3cr
Prerequisite: Education major
 Introduces freshman pre-service teachers to the ever-changing world of digital instructional technology. Learners are exposed to computer-based tools of the trade used by teachers in the delivery and management of instruction. Does not count towards credits needed for COMM major.

COMM 150 Aesthetics and Theory of Communications Media

3c-0l-3cr
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.

COMM 201 Internet and Multimedia

3c-0l-3cr
Prerequisite: [BTED/COSC/IFMG 101](#) or prior exposure to word processing and electronic mail
 Focuses on the evaluation of information and multimedia resources available on electronic networks when doing research in an area of one's choice. 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 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. ([BTED/COMM/COSC/IFMG/LIBR 201](#) may be used interchangeably for D or F repeats and may not be counted for duplicate credit.)

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COMM 205 Media Presentation Skills

3c-0l-3cr
Prerequisites: [COMM 150](#), COMM majors only
 Introduces basic presentation skills, emphasizing the use of media to enhance presentations. 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-0l-3cr
 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-0l-3cr
Prerequisite: [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 are explored. Hands-on experiences using a variety of graphic software applications.

COMM 249 Basic Audio Recording Techniques

3c-01-3cr

Prerequisites: [COMM 101](#), 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. Provides hands-on experience through labs and projects to be completed outside of class. Students are expected to provide an audio tape recorder.

COMM 251 Television Production

3c-01-3cr

Prerequisites: [COMM 101](#), 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.

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COMM 271 Beginning Photography

3c-01-3cr

Prerequisite: [COMM 101](#) or permission

Introduces beginning photography students to photography as a tool for communications and as a lifelong leisure activity. Covers basic camera operation and other means of image acquisition, imaging processing and manipulation, printing, and photo finishing. Student is required to have a camera, preferably a single-lens reflex, with fully manual focusing and exposure capability.

COMM 281 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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 302 Research in Communications Media

3c-01-3cr

Prerequisites: [COMM 150](#), [ENGL 101](#) and [202](#) (grade of C or better)

Provides knowledge of the resource materials and research strategies used in the communications media field. Students 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-01-3cr

Prerequisites: [COMM 150](#), [ENGL 101](#) and [202](#) (grade of C or better) or instructor permission

An introduction to the design of media materials and script writing. Style and techniques of writing are 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-01-3cr

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. Explores 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.

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COMM 325 Women in Media

3c-01-3cr

An overview of women in media (including television, film, radio, the Internet, etc.) and some of the issues women face. Emphasizes the historical development of women in the media both nationally and internationally. Will identify some key women in the history of media and discuss the difference between female icons of the past and present. Explore the impact women have had on media and society and the way women are

portrayed by the media.

COMM 330 Instructional Design for Training and Development

3c-01-3cr

Prerequisites: [COMM 150](#), [ENGL 101](#) and [202](#) (grade of C or better) or permission or instructor

Examines the systems approach for the design, development, and evaluation of instructional material. Students learn about the history of instructional design and development and the current status of the field. Each student produces a self-instructional prototype that requires the student to systematically and creatively apply the concepts and rules learned.

COMM 335 Communications Consulting and Project Management

3c-01-3cr

Prerequisite: [COMM 101](#)

Presents the theoretical views and clinical applications of consulting skills and practices associated with and needed by communication professionals. Presented are 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-01-3cr

Prerequisites: [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.

COMM 345 Television Criticism

3c-01-3cr

Prerequisite: [COMM 150](#) or instructor permission

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.

COMM 349 Radio Production

3c-01-3cr

Prerequisite: [COMM 150](#) or instructor permission

An introduction to production techniques as they pertain to radio. Exposure 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.

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COMM 351 Advanced Video Production

3c-01-3cr

Prerequisite: [COMM 251](#)

A production course that emphasizes advanced field production techniques. Some topics include field lighting, video post-production editing with A-B roll, on-line editing, and nonlinear editing. Provides hands-on experience through projects and field trips.

COMM 354 Broadcast Regulation

3c-01-3cr

Prerequisite: [COMM 150](#) or instructor permission

Delves into the areas of law affecting broadcasters. Covers laws pertaining to cable television, station licensing and renewal, political broadcasting, libel, copyright, the right of reply, and privacy. Examines the historical development of the FCC and its jurisdictions. Discusses case studies along with the relevancy of some laws as they pertain to today's society.

COMM 371 Photography II: The Print

3c-01-3cr

Prerequisites: [COMM 271](#), permission

Develops camera and print-making skills to the degree that salon-quality photographic prints can be produced. 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. Emphasizes camera and print control as well as composition and negative and print manipulation.

COMM 375 Mass Media and Behavior

3c-01-3cr

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 PSYC 375; may be taken only once)

COMM 380 The History of African Americans in Film

3c-01-3cr

Traces the historical development of the roles of African Americans in film and television. Examines 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.

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COMM 390 Practicum in Communications

var-1-3cr

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*, Media Relations, and Media Resources. Repeatable for a maximum of 6cr.

COMM 395 Career Planning in Communications Media

1c-01-1cr

Prerequisite: Minimum 20 COMM credits

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-01-3cr

Prerequisites: [COMM 150](#), [ENGL 101](#) and [202](#) (grade of C or better) or instructor permission

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. Practice and work to improve writing skills in this area of broadcast writing.

COMM 405 Process of Digital Game Development

3c-01-3cr

Prerequisite: Junior/senior standing or instructor permission

Examines the theory and development of digital games. Explores the logics of gameplay, the process of game development, gaming technology, and the psychology of gaming. Also examines the history and organization of the gaming industry. Students also create deliverables around a game concept they develop in the process of completing the course.

COMM 408 Media Field Studies

3c-01-3cr

Prerequisites: [COMM 101](#), junior standing, and instructor permission

A hands-on course designed to help learn about the production process involving on-location production. Has three distinct phases: students begin with research and preproduction tasks on campus, may travel to a remote site to collect additional information and images and use those images to complete a production, and are responsible for travel expenses.

COMM 410 Promotion for Radio, Television, and Cable

3c-01-3cr

Prerequisite: [COMM 150](#)

Teaches the promotion processes used by promotion directors at radio stations, television stations, and cable outlets. Emphasis is placed on understanding the purpose and application of demographic and psychographic targeting of the television, radios, and cable audiences. Students will be involved in a project to effectively promote IUP's on-campus radio and/or television station. Helps students understand how to build audiences in the competitive television, radio, and cable environments.

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COMM 440 Multimedia Production

3c-01-3cr

Prerequisite: [COMM 240](#) or instructor permission

Presents 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-01-3cr

Prerequisite: [COMM 150](#) or instructor permission

A survey of the role that motion picture film production plays in society. A major emphasis is on the variety of applications with special consideration given to motion pictures as a tool to support research.

COMM 447 Animation

3c-01-3cr

Prerequisite: COMM 444

Introduces animation techniques and offers practical experience in planning and producing animated sequences. Work with filmograph, cut-out, puppet, and full cel animation. Practice in designing, drawing, tracing, inking, and painting cels; preparation of blackboards; use of cel boards; animation camera and stand; preparation of story boards and cue sheets; integration of visual and sound.

COMM 449 Advanced Audio Recording Techniques

3c-01-3cr

Prerequisites: [COMM 249](#), permission

Sound recording utilizing advanced techniques and concentrating on specific applications. Students participate in an intensive lab experience utilizing the most advanced equipment available. Emphasizes application, editing, signal processing, and multi-track recording. Student is expected to produce a sound recording for a specific use of professional quality.

COMM 451 Broadcast News Process

3c-01-3cr

Prerequisites: [COMM 251](#), [349](#), permission

Reporting and presenting radio and TV news programs. Analysis of news and public affairs broadcasting.

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COMM 460 Emerging Trends in Communication Technology

3c-01-3cr

Prerequisite: [COMM 150](#)

An introduction to the ever-changing world of telecommunication technologies, focusing on modern, computer-driven modes of information exchange. Provides an opportunity to synthesize several of the technologies covered and integrate them into a workable solution to a practical telecommunication problem.

COMM 470 Management Practices in Electronic Communications

3c-01-3cr

Prerequisites: [COMM 150](#), any COMM writing-intensive course, and junior or senior standing

Presents the theory and practice of media management. Areas covered 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 conduct case study research related to their career direction.

COMM 471 Electronic Imaging

3c-01-3cr

Prerequisite: [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 learn the applications of this technology to the print media and examine the ethical and legal issues of image manipulation.

COMM 474 Documentary Photography

3c-01-3cr

Prerequisites: [COMM 271](#), 472, permission

Prepares students to deal with the actions of subjects in both descriptive and interpretive styles. Students are assigned to photograph a variety of local events in a manner that makes the nature of the event evident to the viewer of the photograph. Students also learn differences between

printing for reproduction and for exhibit. They are required to have a 35mm camera (preferably a manual exposure single-lens reflex) and a flash unit.

COMM 475 Senior Portfolio Presentation

1c-01-1cr

Prerequisites: Communications Media majors only and [COMM 395](#)

Students compile and present a series of works produced through previous Communications Media courses and activities. The result is a portfolio suitable for presentation to a potential employer. The portfolio may include examples of student works from a variety of subject areas.

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COMM 480 Seminar in Communications Media

3c-01-3cr

Prerequisites: 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.

COMM 481 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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, 12cr

Prerequisites: [COMM 395](#), department approval

A 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 credit earned. A maximum of 15cr is applicable to an undergraduate degree program from any combination of internship and practicum experience.

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Computer Science (COSC)

Department of Computer Science
College of Natural Sciences and Mathematics

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

COSC 101 Microbased Computer Literacy
COSC 105 Fundamentals of Computer Science
COSC 110 Problem Solving and Structured Programming
COSC 201 Internet and Multimedia
COSC 205 Programming Languages for Secondary Education
COSC 210 Object-Oriented and GUI Programming
COSC 220 Applied Computer Programming
COSC 250 Introduction to Numerical Methods
COSC 281 Special Topics
COSC 300 Assembly Language Programming
COSC 304 Interactive Internet Programming with Java
COSC 310 Data Structure and Algorithms
COSC 315 Large File Organization and Access
COSC 316 Host Computer Security
COSC 319 Software Engineering Concepts
COSC 320 Software Engineering Practice
COSC 341 Introduction to Database Management Systems
COSC 344 Productivity Tools and Fourth Generation Language
COSC 345 Data Communications
COSC 352 LAN Design and Installation
COSC 354 Testing and Controlling LANs
COSC 355 Computer Graphics
COSC 356 Network Security
COSC 360 IBM Job Control Language
COSC 362 Unix Systems
COSC 380 Seminar on the Computer Profession
COSC 405 Artificial Intelligence
COSC 410 Processor Architecture and Microprogramming
COSC 415 Internet Architecture and Programming
COSC 419 Software Development with Ada
COSC 420 Modern Programming Languages
COSC 424 Compiler Construction
COSC 427 Introduction to Cryptography

COSC 430 Introduction to Systems Programming
COSC 432 Introduction to Operating Systems
COSC 450 Applied Numerical Methods
COSC 451 Numerical Methods for Supercomputers
COSC 460 Theory of Computation
COSC 480 Seminar on Technical Topics
COSC 481 Special Topics
COSC 482 Independent Study
COSC 485 Independent Study
COSC 493 Internship in Computer Science

COSC 101 Microbased Computer Literacy

3c-01-3cr

An introductory course designed to provide fundamental understanding of computers. Familiarizes students with the interaction of computer hardware and software. Emphasizes the application of microcomputers, the use of productivity software (word processing, spreadsheet management, file and database management, presentation graphics, web browsers, search strategies, and e-mail), and the social and ethical aspects of the impact of computers on society. (Does not count toward Computer Science major.) Note: cross-listed as [BTED](#) and [IFMG 101](#). 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-01-3cr

The first course for Computer Science majors. Required of all Computer Science students; 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. A 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-01-3cr

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.

COSC 201 Internet and Multimedia

3c-01-3cr

Prerequisite: [BTED/COSC/IFMG 101](#) or prior exposure to word processing and electronic mail

Focuses on the evaluation of information and multimedia resources available on electronic networks when doing research in an area of one's choice. 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 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. ([BTED/COMM/COSC/IFMG/LIBR 201](#) may be used interchangeably for D or F repeats and may not be counted for duplicate credit.)

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COSC 205 Programming Languages for Secondary Education

3c-01-3cr

Prerequisite: Education major

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 is not given if this course is taken after completing 6cr or more of COSC courses.)

COSC 210 Object-Oriented and GUI Programming

3c-01-3cr

Prerequisite: [COSC 110](#)

An in-depth introduction to the Object-Oriented Programming (OOP) paradigm. Focuses on designing, implementing, and using objects. Covers function and operator overloading, templates, inheritance, and polymorphism. Also includes an introduction to Graphical User Interface (GUI)

design and programming.

COSC 220 Applied Computer Programming

4c-01-4cr

Prerequisite: [COSC 110](#) or equivalent

Structured programming principles and techniques, as implemented through the ANSI COBOL language; program design using top-down techniques; program and project documentation; introduction to sequential and random file algorithms and integrated file systems.

COSC 250 Introduction to Numerical Methods

3c-01-3cr

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-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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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COSC 300 Assembly Language Programming

3c-01-3cr

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-01-3cr

Prerequisite: [COSC 110](#) or equivalent

An introduction to interactive Internet programming using Java. Focuses 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 and Algorithms

3c-01-3cr

Prerequisite: [COSC 210](#)

Fundamental concepts of data design and implementation, data abstraction, data structures, arrays, linked-lists, stacks, queues, recursion, trees, graphs, and hashing. Also covers sorting algorithms, divide and conquer techniques, greedy methods, and analysis of algorithms. The object-oriented paradigm is employed using an object-oriented language.

COSC 315 Large File Organization and Access

3c-01-3cr

Prerequisite: [COSC 220](#)

The organization of large computer files for business systems, information systems, and other applications. The use of advanced COBOL for efficient file access. An evaluation of file access methods and directory organization. An introduction to random file algorithms and integrated file systems.

COSC 316 Host Computer Security

3c-01-3cr

Prerequisites: [COSC 110](#) or equivalent programming course, junior standing or instructor permission

An introduction to the theory and concepts of computer security. Looks at security issues and policies with regard to hardware, software development, databases, operating systems, and the use of encryption as they refer to host computers. The more common attacks on host computer systems are covered. Vulnerability assessment tools and techniques for defending host computer systems are explored in various projects. (Titled Cybersecurity Basics prior to 2005-06)

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COSC 319 Software Engineering Concepts

3c-0l-3cr

Prerequisites: [COSC 220](#) and [310](#) or instructor permission

Software engineering concepts include the collection of tools, procedures, methodologies, and accumulated knowledge about the development and maintenance of software-based systems. Strongly suggested for any student planning to take an internship in COSC. After an overview of the phases of the software lifecycle, current methodologies, tools, and techniques being applied to each phase are discussed in depth with localized exercises given to reinforce learning of concepts.

COSC 320 Software Engineering Practice

1c-2d-3cr

Prerequisite: [COSC 319](#) or instructor permission

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, but not both, may count toward computer science major requirements for graduation; the other course credits are free electives.

COSC 341 Introduction to Database Management Systems

3c-0l-3cr

Prerequisites: [COSC 220](#) (or equivalent) and [310](#) or instructor permission

A study of database concepts. A detailed study of information concepts and the realization of those concepts using the relational data model. Practical experience gained designing and constructing data models and using SQL to interface to both multi-user DBMS packages and to desktop DBMS packages.

COSC 344 Productivity Tools and Fourth Generation Language

3c-0l-3cr

Prerequisite: [COSC 341](#) 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 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 345 Data Communications

COSC 352 LAN Design and Installation

COSC 354 Testing and Controlling LANs

COSC 345 Data Communications

3c-0l-3cr

Prerequisites: [COSC 110](#) or [220](#); [MATH 121](#) or [123](#); [MATH 214](#) 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.

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COSC 352 LAN Design and Installation

3c-0l-3cr

Prerequisite: [IFMG 250](#) or [BTST 273](#) or any COSC course numbered 300 or higher

A study of fundamental local area networking concepts. A 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-0l-3cr

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 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-11-3cr

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. A brief introduction to interactive computer graphics is included.

COSC 356 Network Security

3c-01-3cr

Prerequisite: [COSC 316](#) or [COSC/IFMG 352](#)

Explores mechanisms for protecting networks against attacks. Emphasizes network security applications that are used on the Internet and for corporate networks. Investigates various networking security standards and explores methods for enforcing and enhancing those standards.

COSC 360 IBM Job Control Language

1c-01-1cr

Prerequisite: [COSC 220](#) or instructor permission

A detailed study of the job control language (JCLRG) 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-01-3cr

Prerequisite: [COSC 310](#) or instructor permission

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-1cr

Prerequisite: Permission

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-01-3cr

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. Explores the underlying theory including matching, goal reduction, constraint exploration, search, control, problem solving, and logic.

COSC 410 Processor Architecture and Microprogramming

3c-01-3cr

Prerequisites: [COSC 300](#) and [310](#)

The logical description of computer processor structure (architecture), with an emphasis on the microprogramming approach. Project assignments using minicomputer.

COSC 415 Internet Architecture and Programming

3c-01-3cr

Prerequisites: [COSC 310](#) or instructor permission

Corequisite: [COSC 341](#)

Covers the fundamental architecture of Internet systems and the process of developing computer applications running on the Internet in general and on the World Wide Web in particular. Students gain a basic understanding of the TCP/IP protocols and the client/server technology. Methods, languages, and tools for developing distributed applications on the Internet are evaluated. Programming projects developing distributed applications, using a representative suite of development tools and languages, are an integral part of this course.

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COSC 419 Software Development with Ada

3c-01-3cr

Prerequisite: [COSC 310](#)

An introduction to the Ada programming language as a tool of the software engineer. Projects 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-01-3cr

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.

COSC 424 Compiler Construction

3c-01-3cr

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 427 Introduction to Cryptography

3c-01-3cr

Prerequisites: [COSC 310](#), [MATH 122](#) or [123](#)

Fundamental concepts of encoding and/or encrypting information, cryptographic protocols and techniques, various cryptographic algorithms, and security of information are covered in depth.

COSC 430 Introduction to Systems Programming

3c-01-3cr

Prerequisites: [COSC 300](#) and [310](#)

Concepts and techniques of systems programming with an emphasis on assembly, linking, loading, and macro processing for user programs. An overview of higher-level language translation and system control. Programming and research projects.

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COSC 432 Introduction to Operating Systems

3c-01-3cr

Prerequisites: [COSC 300](#), [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.

COSC 450 Applied Numerical Methods

3c-01-3cr

Prerequisites: [COSC 250](#), [MATH 171](#), and [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 is introduced and used, along with FORTRAN, in programming selected algorithms.

COSC 451 Numerical Methods for Supercomputers

3c-01-3cr

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 are introduced to these features and learn how numerical algorithms can be constructed to exploit supercomputers' capabilities. They 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)

COSC 460 Theory of Computation

3c-01-3cr

Prerequisite: [COSC 310](#) or instructor permission

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-11-1cr

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](#).

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COSC 481 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

A seminar in advanced topics of computer science; content varies depending on interests of instructor and students. May be repeated for additional credit. Special Topics numbered 481 are primarily for upper-level undergraduate students.

COSC 482 Independent Study

var-1-4cr

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-12cr

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-12cr

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 4cr of COSC 493 may be applied toward the credit requirements for the major in COSC.

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French (FRNC)

Department of French and German
College of Humanities and Social Sciences

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

FRNC 101 Basic French
FRNC 201 College French I
FRNC 202 College French II
FRNC 203 Accelerated College French
FRNC 253 Intermediate Composition and Conversation
FRNC 254 Civilization of Modern France
FRNC 281 Special Topics
FRNC 301 Portraits of Women in the French Novel
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 375 French Literature from Medieval through Seventeenth Century
FRNC 376 French Literature from Eighteenth through Twentieth Century
FRNC 390 Teaching Elementary School Content in French and German
FRNC 431 Advanced French Conversation
FRNC 432 French Phonetics and Phonology
FRNC 441 Advanced French Grammar
FRNC 460 Studies in French Literature
FRNC 462 Studies in French Language and Linguistics
FRNC 463 Studies in French Culture and Civilization
FRNC 481 Special Topics
FRNC 482 Independent Study
FRNC 483 Honors Thesis
FRNC 493 Internship

FRNC 101 Basic French

4c-0l-4cr

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 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 Department of Developmental Studies practice is required.

FRNC 201 College French I

3c-01-3cr

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. Emphasizes 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-01-3cr

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. Emphasizes acquiring greater skill in reading literary and cultural texts. Liberal Studies elective credit is given for this course.

FRNC 203 Accelerated College French

6c-01-6cr

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-01-3cr

An 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.

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FRNC 254 Civilization of Modern France

3c-01-3cr

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. Emphasizes acquisition of an active knowledge of the business world.

FRNC 281 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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-01-3cr

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-01-3cr

Prerequisite: [FRNC 202](#)

Emphasizes 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-01-3cr

Prerequisite: [FRNC 202](#)

Reviews and refines knowledge of French grammatical structure, including question formation, description, comparison, and present and past narration. Emphasizes written expression.

FRNC 353 Intermediate French Composition

3c-01-3cr

Prerequisite: [FRNC 202](#)

Includes intensive practice in written expression in French. Emphasizes the development of communicative skills as well as knowledge of French structure. Taught in French.

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FRNC 354 Business French

3

3c-01-3cr

Prerequisite: [FRNC 254](#) or instructor permission

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-01-3cr

Prerequisite: [FRNC 341](#) or [353](#)

Develops 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-01-3cr

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 receive special emphasis at the instructor's discretion.

FRNC 375 French Literature from Medieval through Seventeenth Century

3c-01-3cr

Prerequisite: [FRNC 370](#)

Introduces 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 Eighteenth through Twentieth Century

3c-01-3cr

Prerequisite: [FRNC 370](#)

Introduces the 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 are in French.

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FRNC 390 Teaching Elementary School Content in French and German

3c-01-3cr

Prerequisite: Instructor permission

Explores 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 form the basis for the development of objectives and activities that integrate the teaching of foreign language and culture with elementary school subject content. Students 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-01-3cr

Prerequisite: [FRNC 331](#)

Builds on the communication skills acquired in FRNC 331. Focuses on the development of advanced vocabulary and discourse strategies. Activities include in-depth discussion and debate of current events and real-life problems.

FRNC 432 French Phonetics and Phonology

3c-01-3cr

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 are examined. Refine pronunciation of French through classroom practice, oral presentations, and tape recordings.

FRNC 441 Advanced French Grammar

3c-01-3cr

Prerequisite: [FRNC 341](#)

Builds upon previous knowledge of French grammar, with a view to perfecting control of more complex structures. These structures include complex sentences, the subjunctive, hypothetical statements, and passive voice. Emphasizes written expression.

FRNC 460 Studies in French Literature

3c-0l-3cr

Prerequisite: [FRNC 375](#) or [376](#)

Provides a flexibly designed syllabus permitting instructors and students to explore areas of special interest in French literature and culture. Content varies according to the instructor's desired focus for a given semester. Conducted in French or English at the instructor's discretion.

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FRNC 462 Studies in French Language and Linguistics

3c-0l-3cr

Prerequisite: [FRNC 353](#) or equivalent

Explores 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-0l-3cr

Prerequisite: [FRNC 353](#)

Aspects of current French culture and civilization are explored and assessed particularly in relation to French governmental and cultural institutions.

FRNC 481 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics 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-1-3cr

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 483 Honors Thesis

var-1-6cr

Prerequisites: Admission to departmental honors program; prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office

An intensive, focused study involving independent research culminating in a written thesis approved by a thesis director and two faculty readers/committee members. May be taken more than once to a maximum of 6cr.

FRNC 493 Internship

var-3-12cr

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 are 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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German (GRMN)

Department of French and German
College of Humanities and Social Sciences

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

GRMN 101 Elementary German	GRMN 361 Development of German Culture and Literature I
GRMN 151 German I	GRMN 362 Development of German Culture and Literature II
GRMN 152 German II	GRMN 363 Introduction to German Literature I
GRMN 201 Intermediate German	GRMN 364 Introduction to German Literature II
GRMN 221 Conversation III	GRMN 367 Nineteenth-Century German Literature
GRMN 222 Conversation IV	GRMN 368 Twentieth-Century German Literature
GRMN 251 German III	GRMN 369 Contemporary German Literature
GRMN 252 German IV	GRMN 370 The Age of Goethe I
GRMN 253 Intermediate Composition and Conversation	GRMN 371 The Age of Goethe II
GRMN 254 Business German	GRMN 381 German Drama in English Translation
GRMN 256 Scientific German	GRMN 390 Teaching Elementary School Content in French and German
GRMN 281 Special Topics	GRMN 410 History of the German Language
GRMN 321-322 Advanced Conversation I and II	GRMN 481 Special Topic
GRMN 351 Advanced German Language I	GRMN 482 Independent Study
GRMN 352 Advanced German Language II	GRMN 493 Internship in Germany

GRMN 101 Elementary German

var 6cr

Complete levels I and II sequence in one semester (6cr). Emphasizes the 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-0l-3cr

For beginners, the objectives include grammar, pronunciation, reading, speaking, and writing.

GRMN 152 German II

3c-0l-3cr

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 6cr

Complete levels III and IV sequence in one semester (6cr). Students develop language skills with emphasis on oral competency. Classes meet M,W,F for 60 minutes and T,R for 90 minutes.

GRMN 221 Conversation III

2c-0l-2cr

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-0l-2cr

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. Students may enroll without having taken [GRMN 221](#).

GRMN 251 German III

3c-0l-3cr

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-0l-3cr

A continuation of German III with some emphasis on literary works.

GRMN 253 Intermediate Composition and Conversation

3c-0l-3cr

Can be taken instead of or in addition to 252. Designed for majors or serious students. Taught Spring semester only.

GRMN 254 Business German

3c-0l-3cr

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.

GRMN 256 Scientific German

3c-0l-3cr

Substitutes for [GRMN 252](#), course is offered in the second semester. Primarily for science majors; may be taken as an elective by German majors.

GRMN 281 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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-1cr

Increases speaking ability. The variety of content permits repetitions of these relatively informal courses.

GRMN 351 Advanced German Language I

3c-0l-3cr

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-0l-3cr

Continues to expand the student's grammatical skills and to apply them by the writing of longer themes based on cultural and literary readings.

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GRMN 361 Development of German Culture and Literature I

3c-0l-3cr

Provides 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.

GRMN 362 Development of German Culture and Literature II

3c-0l-3cr

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-0l-3cr

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-0l-3cr

Selected readings in German fiction and drama to acquaint the student with representative works and techniques of interpretation.

GRMN 367 Nineteenth-Century German Literature

3c-0l-3cr

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-0l-3cr

A study of representative works of German poetry and prose from Expressionism through World War II.

GRMN 369 Contemporary German Literature

3c-0l-3cr

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-0l-3cr

A study of representative works from the Enlightenment and Storm and Stress periods.

GRMN 371 The Age of Goethe II

3c-0l-3cr

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-0l-3cr

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.

GRMN 390 Teaching Elementary School Content in French and German

3c-0l-3cr

Prerequisite: Instructor permission

Explores 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 are treated. These theoretical foundations form the basis for the development of objectives and activities that integrate the teaching of foreign language and culture with elementary school subject content. Provides 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-0l-3cr

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-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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.

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GRMN 482 Independent Study

var-1-3cr

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.

GRMN 493 Internship in Germany

var-3-12cr

Prerequisites: 12cr 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 are 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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Information Management (IFMG)

Department of Management Information Systems and Decision Sciences
Eberly College of Business and Information Technology

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

IFMG 101 Microbased Computer Literacy	IFMG 370 Advanced COBOL
IFMG 201 Internet and Multimedia	IFMG 382 IT Audit and Control
IFMG 205 Foundations of MIS	IFMG 450 Database Theory and Practice
IFMG 210 Introduction to Front-End Business Applications	IFMG 451 Systems Analysis
IFMG 230 Introduction to Back-End Business Applications	IFMG 455 Data Warehousing and Mining
IFMG 250 Business Systems Technology	IFMG 460 Analysis and Logical Design
IFMG 251 Business Systems Analysis and Design	IFMG 465 ERP Technical Fundamentals
IFMG 255 Business Applications in COBOL	IFMG 470 Systems Design
IFMG 261 Micro Database Systems	IFMG 475 Project Management and Implementation
IFMG 281 Special Topics	IFMG 480 Distributed Business Information Systems
IFMG 300 Information Systems: Theory and Practice	IFMG 481 Special Topics
IFMG 330 Advanced Back-End Business Applications	IFMG 482 Independent Study
IFMG 352 LAN Design and Installation	IFMG 485 Seminar: IS Current Topics
IFMG 354 Testing and Controlling LANs	IFMG 493 Internship in MIS
IFMG 368 E-commerce Security	

Note: Except for Accounting, Business Education, and nonbusiness majors who have met the required prerequisites, students scheduling 300 and 400 courses are expected to have achieved junior standing as described in the Eberly College of Business and Information Technology Academic Policies.

IFMG 101 Microbased Computer Literacy

3c-0l-3cr

An introductory course designed to provide a fundamental understanding of computers. Familiarizes students with the interaction of computer hardware and software. Emphasizes the application of microcomputers, the use of productivity software (word processing, spreadsheet management, file and database management, presentation graphics, web browsers, search strategies, and e-mail), and the social and ethical aspects of the impact of computers on society. (Does not count toward Computer Science major.) Note: cross-listed as [BTED](#) and [COSC](#) 101. 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-0l-3cr

Prerequisite: [BTED/COSC/IFMG 101](#) or prior exposure to word processing and electronic mail

Focuses on the evaluation of information and multimedia resources available on electronic networks when doing research in an area of one's choice. 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 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. ([BTED/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-01-3cr

Prerequisite: [BTED/COSC/IFMG 101](#)

An introductory course providing 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. Introduces concepts of organization, information system growth, telecommunications, and re-engineering.

IFMG 210 Introduction to Front-End Business Applications

3c-01-3cr

Prerequisite: [BTED/COSC/IFMG 101](#)

Provides an introduction to systems and development concepts, information technology, and front-end business application software. Explains how information is used in organizations and how MIS enables improvement in quality, timeliness, and competitive advantage. As part of this course, students learn how to design and construct a front-end business application using a programming language.

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IFMG 230 Introduction to Back-End Business Applications

3c-01-3cr

Prerequisites: [ACCT 201](#) and [IFMG 210](#)

Introduces the back-end business programming language as it applies to business organizations and their applications. Structured back-end business concepts and methods are taught as the student learns how to solve business problems using computers. Involves using files, reports, and tables to produce a variety of outputs utilized in operating and managing business activities.

IFMG 250 Business Systems Technology

3c-01-3cr

Prerequisite: [IFMG 210](#) or [COSC 110](#)

Presents a functional review of computing equipment and the organization of components and devices into architectural configurations. Also teaches the principles of system software and builds an understanding of combinations of hardware and software within architectural designs. (Offered as IFMG 350 prior to 2003-04)

IFMG 251 Business Systems Analysis and Design

3c-01-3cr

Prerequisites: [ACCT 201](#) and [IFMG 210](#)

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. MIS majors may count this course towards their graduation requirements.

IFMG 255 Business Applications in COBOL

3c-01-3cr

Prerequisites: [ACCT 201](#) and [IFMG 205](#)

Introduces 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. Involves using files, reports, and tables to produce a variety of outputs utilized in operating and managing business activities.

IFMG 261 Micro Database Systems

3c-01-3cr

Prerequisite: [BTED/COSC/IFMG 101](#)

The fundamentals of database management including different database models and database design issues are examined. Emphasizes the use of various tools of relational database software, including report generators, screen builders, and query facilities. Design techniques and software tools are used in creating a database application. Intended as an elective for business students who are not majoring in MIS. MIS majors may not count this course towards their graduation requirements.

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IFMG 281 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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-0l-3cr

Prerequisites: [ACCT 202](#), [BTED/COSC/IFMG 101](#)

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.

IFMG 330 Advanced Back-End Business Applications

3c-0l-3cr

Prerequisite: [IFMG 230](#) or [COSC 220](#)

Explores back-end business programming language as it applies to business organizations and their applications. Shows ways to embed and link a variety of techniques of back-end business concepts and methods to solve business problems using computers and web technologies. The student implements back-end business and user interface techniques in managing business activities.

IFMG 352 LAN Design and Installation

3c-0l-3cr

Prerequisite: [BTST 273](#) or [IFMG 250](#) or any [COSC](#) course numbered 300 or higher

A study of fundamental local area networking concepts. A detailed study of the basics of local area network (LAN) technology. A 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-0l-3cr

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 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.

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IFMG 368 E-commerce Security

3c-0l-3cr

Prerequisite: [IFMG 352](#)

Introduces the security concepts, operating systems security, network security, database, web server, and communication security. Public and common practices of procedures and regulations regarding e-commerce security are explored. Writing information security policies will be introduced.

IFMG 370 Advanced COBOL

3c-0l-3cr

Prerequisite: [COSC 220](#)**Corequisite:** [IFMG 250](#)

A continuation of introductory COBOL with an emphasis on structured methodology of program design, development, testing, implementation, and documentation of common business-oriented applications. 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 382 IT Audit and Control

3c-0l-3cr

Prerequisites: [ACCT 201](#), [COSC 220](#) or [IFMG 230](#) or equivalent programming course

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 Database Theory and Practice

3c-0l-3cr

Prerequisites: [IFMG 230](#) or [COSC 220](#)

Reviews database design, data model methodologies, physical data structure, and database development and implementation. The remote data service, transaction server, and database administration are introduced. Emphasizes the practical approach in accessing the database using Internet technology.

IFMG 451 Systems Analysis

3c-0l-3cr

Prerequisites: [IFMG 250](#) and [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.

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IFMG 455 Data Warehousing and Mining

3c-0l-3cr

Prerequisites: [IFMG 450](#) or [261](#) or COSC 441, and [MATH 214](#) or [216](#)

Introduces the strategies, technologies, and techniques associated with this growing MIS specialty area. Composed of two main parts: 1) learn the basic methodology for planning, designing, building, using, and managing a data warehouse, and 2) learn how to use different data mining techniques to derive information from the data warehouse for strategic and long-term business decision making.

IFMG 460 Analysis and Logical Design

3c-0l-3cr

Prerequisites: [IFMG 352](#) and [450](#)

Involves teaching the tools and techniques required for the analysis and design of a business system. Along with in-class discussions of the principles and techniques for analyzing, designing, and constructing the system, the students also formulate system teams in order to analyze the problems of an existing business information system, to design an improved system, and to control the implementation of the new system.

IFMG 465 ERP Technical Fundamentals

3c-0l-3cr

Prerequisite: [IFMG 450](#) or instructor permission

Provides a fundamental understanding of Enterprise Resource Planning (ERP) Software. Shows students how to use ERP and its various function modules as well as give students an understanding of the IS implementation, technical, managerial, coding, and reporting skills necessary to successfully incorporate ERP into a business enterprise.

IFMG 470 Systems Design

3c-0l-3cr

Prerequisite: [IFMG 451](#)

A study of 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 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 475 Project Management and Implementation

3c-0l-3cr

Prerequisite: [IFMG 460](#)

Introduces the demands made on the project manager and the nature of the manager's interaction with the rest of the parent organization in development of a Business Information System. Studies the difficult problems associated with conducting a project using people and organizations that represent different cultures and politics and that may be separated by considerable distances. Also covers how to implement and carry out the development of the project using several Information Systems development methodologies.

IFMG 480 Distributed Business Information Systems

3c-0l-3cr

Prerequisite: [IFMG 250](#)

A study of the techniques involved in planning, designing, and implementing distributed processing systems. Distributed marketing, financial, and corporate accounting systems are included.

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IFMG 481 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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.

IFMG 482 Independent Study

var-1-3cr

Prerequisite: Prior approval through advisor, 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 based on academic appropriateness and availability of resources.

IFMG 485 Seminar: IS Current Topics

3c-01-3cr

Prerequisites: [IFMG 300](#), 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-3-12cr

Prerequisites: [IFMG 352](#) and [450](#), consent of department chairperson

Positions with participating business, industry, or governmental organizations provide the student with experience in systems analysis. Note: Course can be taken as a 3cr major-area elective requirement.

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Italian (ITAL)

Department of French and German
College of Humanities and Social Sciences

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

ITAL 101 Basic Italian I
ITAL 102 Basic Italian II
ITAL 201 Intermediate Italian III
ITAL 202 Intermediate Italian IV

ITAL 101 Basic Italian I

3c-0l-3cr

Introduces the Italian language, with emphasis on the four basic skills: reading, writing, speaking, and listening. Students 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-0l-3cr

Prerequisite: [ITAL 101](#) or equivalent

A continuation of Basic Italian I. Introduces the Italian language, with emphasis on the four basic skills: reading, writing, speaking, and listening. Also imparts 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-0l-3cr

Prerequisites: [ITAL 101](#) and [102](#) 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. Also increases knowledge of Italian history, culture, and literature.

ITAL 202 Intermediate Italian IV

3c-0l-3cr

Prerequisite: [ITAL 201](#) or equivalent

An intermediate-level course for students who have previously studied Italian. Continues student progress in the mastery of the four skills: reading, writing, speaking, and listening. Emphasizes increasing proficiency in reading and writing. Also increases knowledge of Italian history, culture, and literature.

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Library (LIBR)

The University Libraries Academic Affairs Division

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

LIBR 151 Introduction to Library Resources
LIBR 201 Internet and Multimedia
LIBR 251 Information Access in the Digital Age
LIBR 281 Special Topics
LIBR 481 Special Topics

LIBR 151 Introduction to Library Resources

var-1cr

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-0l-3cr

Prerequisite: [BTED/COSC/IFMG 101](#) or prior exposure to word processing and electronic mail

Focuses on the evaluation of information and multimedia resources available on electronic networks when doing research in an area of one's choice. 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 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. ([BTED/COMM/COSC/IFMG/LIBR 201](#) may be used interchangeably for D or F repeats and may not be counted for duplicate credit.)

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LIBR 251 Information Access in the Digital Age

2c-0l-2cr

An introduction to library research equips the student with information literacy skills so that the student will be able to determine the extent of information needed; access the needed information effectively and efficiently; evaluate information and its sources critically; incorporate selected information into one's knowledge base; use information effectively to accomplish a specific purpose; understand the economic, legal, and social issues surrounding the use of information; and access and use information ethically and legally. Provides conceptual and practical expertise as an information networker to locate, evaluate, and use effectively the needed information. Basic knowledge of computer applications is helpful.

LIBR 281 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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.

LIBR 481 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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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Safety Sciences (SAFE)

Department of Safety Sciences
College of Health and Human Services

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

SAFE 100 Workplace Safety Today and Tomorrow	SAFE 380 Institutional Safety Management
SAFE 101 Introduction to Occupational Safety and Health	SAFE 399 Experience in Cooperative Education II
SAFE 102 Introduction to Mine Safety and Health	SAFE 401 Mine Ventilation
SAFE 111 Principles of Industrial Safety I	SAFE 402 Health Hazard Evaluation
SAFE 211 Principles of Industrial Safety II	SAFE 410 Environmental Safety and Health Regulations
SAFE 212 Hazard Prevention Management I	SAFE 412 Hazard Prevention Management II
SAFE 220 Hazardous Materials	SAFE 420 Law and Ethics in the Safety Profession
SAFE 231 Principles of Mine Safety I	SAFE 430 Recognition, Evaluation, and Control of Occupational Health Hazards II
SAFE 232 Principles of Mine Safety II	SAFE 441 Accident Investigation
SAFE 245 Product Safety	SAFE 442 Current Issues in Safety
SAFE 281 Special Topics	SAFE 443 Construction Safety
SAFE 299 Experience in Cooperative Education I	SAFE 461 Air Pollution
SAFE 301 Health Hazard Identification	SAFE 462 Radiological Health
SAFE 303 Control of Health Hazards	SAFE 465 Right-to-Know Legislation
SAFE 311 Fire Protection	SAFE 472 Process Safety in the Chemical Industry
SAFE 330 Recognition, Evaluation, and Control of Occupational Health Hazards I	SAFE 481 Special Topics
SAFE 345 Systems Safety Analysis	SAFE 482 Independent Study
SAFE 347 Ergonomics	SAFE 488 Internship
SAFE 370 Fleet Safety	SAFE 493 Internship

SAFE 100 Workplace Safety Today and Tomorrow

3c-0l-3cr

Prerequisite: Non-Safety Sciences major

Introduces workplace safety, health, and environmental aspects to the students with limited knowledge of the subject. Includes the historical development of safety and health regulations, the impact of injury on society, identifying and evaluating hazards, and hazard controls in specific industrial processes, basic principles of loss management, and the future of safety, health, and environmental regulations. (Offered as SAFE 145 prior to 2006-07)

SAFE 101 Introduction to Occupational Safety and Health

3c-0l-3cr

Introduces the evolution of the safety profession through study of historical events and the changes that resulted. Students gain an understanding of the key components of the profession such as OSHA and workers' compensation, accident investigation, occupational health hazards, emergency response, product liability, ergonomics, fleet safety, ethics, and measuring safety program success. Case studies and small group activities prepare students for further in-depth study of these topics and to fulfill their roles as professionals.

SAFE 102 Introduction to Mine Safety and Health

3c-01-3cr

Provides 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. Presents management of mine health and safety programs. Covers federally mandated training of employees. Offered occasionally.

SAFE 111 Principles of Industrial Safety I

3c-01-3cr

Prerequisite: [SAFE 101](#)

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. Emphasizes plant layout and design, powered industrial vehicles, boilers and unfired pressure vessels, machine guarding, robotics safety, and an introduction to industrial processes.

SAFE 211 Principles of Industrial Safety II

3c-31-4cr

Prerequisite: [SAFE 111](#)

Stresses an understanding of the complexity of industrial hazard control by thoroughly examining elements of safety and health enumerated in the Occupational Safety and Health Administration promulgated standards and in various consensus standards. Emphasizes welding and cutting, walking and working surfaces, materials handling and storage, electrical safe work practices, construction safety, and personal protective equipment. The application of hazard control strategies is accomplished in laboratory sessions.

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SAFE 212 Hazard Prevention Management I

3c-01-3cr

Prerequisite: [SAFE 101](#)

Teaches the fundamental concepts involved in the management of safety programs. Basic safety management terminology, safety professional code of ethics, fleet safety, and product safety are discussed. Also discusses worker's compensation management as well as workplace violence. Development of safety programs to meet applicable standards such as OSHA, ANSI, and ISO 14000 and 18001 will be stressed.

SAFE 220 Hazardous Materials

3c-01-3cr

Prerequisite: [CHEM 102](#), [SAFE 101](#)

Provides a basic understanding of the storage, transportation, and use of hazardous materials in business. Includes a discussion on hazardous materials, specifically their definitions, categories, regulations, and evaluation. Emergency response planning will also be covered.

SAFE 231 Principles of Mine Safety I

3c-01-3cr

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-01-3cr

Prerequisite: [SAFE 102](#)

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.

SAFE 245 Product Safety

3c-01-3cr

Prerequisite: [MATH 217](#)

Traces flow of applicable legislation dealing with consumerism and product safety. Corporate liability for product safety emphasized through case studies. Become 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.

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SAFE 281 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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 Experience in Cooperative Education I

0c-0l-0cr

Prerequisites: GPA of 2.0 or better, [SAFE 101](#), [111](#); approval of academic advisor, co-op coordinator, and department chairperson

Provides the initial experience in a program designed to combine classroom theory with practical application through job-related experiences.

Open to Safety Sciences majors and minors in their sophomore year. Students are employed by organizations where there is an ongoing hazard control program under the direction of an experienced safety professional.

SAFE 301 Health Hazard Identification

3c-0l-3cr

Prerequisites: [BIOL 155](#), [CHEM 102](#), [MATH 121](#), [PHYS 111](#)

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. Emphasizes the study of occupational disease, industrial toxicology, and use of threshold limit values.

SAFE 303 Control of Health Hazards

3c-0l-3cr

Prerequisites: [MATH 217](#), [PHYS 112](#), [SAFE 301](#)

A study of engineering, administrative, and personal protective equipment as methods of reducing or eliminating hazards to the health of industrial workers. Includes industrial ventilation, noise control, heat control, radiation control, personal protective equipment, and industrial health program.

SAFE 311 Fire Protection

2c-3l-3cr

Prerequisites: [CHEM 102](#), [PHYS 112](#), [SAFE 211](#)

Teaches the fundamental concepts involved in the protection of people and property from fire and explosion. Basic fire safety terminology, fire chemistry and extinguishment, fire safety references and standards, and fire program management are discussed. Also discusses control measures for common fire and explosion hazards and the design of buildings in terms of life safety and fire suppression systems. Development of programs in fire safety, as well as the evaluation and control of fire and explosion hazards, will be studied in laboratory sessions. Practical application of fire principles will be completed in laboratory sessions.

[<Back to Top>](#)**SAFE 330 Recognition, Evaluation, and Control of Occupational Health Hazards I**

3c-3l-4cr

Prerequisites: [BIOL 155](#), [CHEM 102](#), [PHYS 112](#)

Provides an understanding of selected chemical stressors in the workplace that may present occupational health hazards to workers. Students learn to anticipate, identify, evaluate, and control chemical stressors including dusts, mists, metal fumes, airborne fibers, inorganic and organic gases and vapors, and oxygen-deficient atmospheres. Hazard classification systems, adverse health effects from excessive exposures, workplace standards, sampling and analytical methods, and control options are emphasized.

SAFE 345 Systems Safety Analysis

2c-3l-3cr

Prerequisites: [MATH 217](#), [SAFE 211](#)

Focuses on the evaluation of system designs using detailed system analysis techniques. Topics 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 system hazard analyses and operating and support hazard analyses. Techniques include failure mode and effect analysis, fault tree analysis, and technique for human error rate prediction. Practical analysis work is accomplished in laboratory sessions.

SAFE 347 Ergonomics

2c-3l-3cr

Prerequisites: [BIOL 155](#), [SAFE 301](#)

Explores the principles which control human performance and its effect upon the safety and reliability of systems. Engineering anthropometrics, human perception, biomechanics of motion and work posture, work physiology, and human performance measurement are taught in the context of their application in workplace design. Instructs 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-0l-3cr

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.

SAFE 380 Institutional Safety Management

3c-0l-3cr

Prerequisite: Junior standing

Historical aspects of safety for both private and public institutions; introduction to trends in liability and institutional safety regulations. Distinctions are made between employee, visitor, and patient hazards and their control.

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SAFE 399 Experience in Cooperative Education II

0c-0l-0cr

Prerequisites: [SAFE 299](#) and GPA of 2.0 or better

Represents the second experience in a program designed to combine classroom theory with practical application through job-related experiences. Open to Safety Sciences majors and minors before completing the required Safety Sciences internship or achieving senior status for minors. Students are employed by organizations where there is an ongoing hazard control program under the direction of an experienced safety professional.

SAFE 401 Mine Ventilation

2c-3l-3cr

Prerequisites: [MATH 122](#), [PHYS 112](#), [SAFE 102](#), or consent

A study of mine ventilation principles and practices which provide a basic knowledge in design and operation of mine ventilation systems. Topics of airflow physics, ventilation standards, fan fundamentals, pressure losses, required air flows, and overall design are discussed. Specific problems in mine ventilation are solved. Offered occasionally.

SAFE 402 Health Hazard Evaluation

2c-3l-3cr

Prerequisites: [MATH 217](#), [PHYS 112](#), [SAFE 301](#)

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 410 Environmental Safety and Health Regulations

3c-0l-3cr

Prerequisites: [CHEM 102](#), [SAFE 220](#)

Provides a working knowledge of federal environmental legislation and their practical application in the work environment. Environmental laws covered include the Clean Water Act, the Clean Air Act, the Resource Conservation and Recovery Act, the Comprehensive Environmental Response, Compensation, and Liability Act, and other related environmental laws. (Offered as SAFE 210 prior to 2005-06)

SAFE 412 Hazard Prevention Management II

3c-3l-4cr

Prerequisites: [MATH 217](#), [MGMT 311](#)

Examines various safety management techniques to identify and prevent the occurrence of hazardous behavior and conditions. Demonstrates methods capable of extracting accurate, meaningful data; methods of collecting, codifying, and processing hazardous and loss incident information; and methods of utilizing data retrieval systems to be used in cost/benefit decision-making for hazardous prevention, safety program, and performance evaluation.

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SAFE 420 Law and Ethics in the Safety Profession

3c-0l-3cr

Prerequisite: Junior standing

Examines ethical and legal issues that present themselves to practicing safety professionals. Students identify and evaluate these issues in terms of their own value system, as well as legal and prudent practice within the safety, health, and environmental profession. Specific reference is made to participation of the safety professional in workers' compensation cases, Occupational Safety and Health Review Commission hearings, class action

suits, and trials by jury.

SAFE 430 Recognition, Evaluation, and Control of Occupational Health Hazards II

3c-31-4cr

Prerequisites: [BIOL 155](#), [CHEM 102](#), [PHYS 112](#)

Provides an understanding of selected physical and biological stressors in the workplace that may present occupational health hazards to workers. Students learn to anticipate, identify, evaluate, and control physical and biological stressors in the workplace. Adverse health effects from excessive exposures, workplace standards, sampling and analytical methods, and control options are emphasized. Concludes with discussions that focus on the effective development and implementation of a comprehensive safety and health program.

SAFE 441 Accident Investigation

3c-01-3cr

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 prevents recurrence of accidents.

SAFE 442 Current Issues in Safety

3c-01-3cr

Prerequisite: [SAFE 211](#) and [301](#) or permission

Examines the emerging issues currently faced by the environmental, safety, and health (ESH) practitioner that extend beyond the conventional areas of academic preparation. In addition, explores certification, ethics, compliance issues, quality management, worldwide concerns, and other common issues. Each student researches and presents information on specific item of current relevance in the safety profession.

SAFE 443 Construction Safety

3c-01-3cr

Prerequisites: [SAFE 211](#) and junior standing or permission

Provides an in-depth coverage of hazard recognition, evaluation, and control principles for the variety of phases of construction. Information regarding the development of a construction safety program along with extensive coverage of federal standards related to the construction industry is also provided.

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SAFE 461 Air Pollution

3c-01-3cr

Prerequisite: [SAFE 301](#) 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-01-3cr

Prerequisite: [SAFE 301](#) or consent

A study of problems associated with ionizing radiation in human environment. Emphasizes 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-01-3cr

Prerequisites: [SAFE 301](#), [311](#), or instructor permission

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-01-3cr

Prerequisites: [SAFE 301](#), [311](#), [345](#), and senior standing, or instructor permission

Covers all important aspects of loss prevention as it is practiced in the chemical process industries. Prepares 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.

SAFE 481 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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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SAFE 482 Independent Study

var-1-3cr

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

12cr

Prerequisites: Senior standing, all required courses in major, minimum 3.0 cumulative GPA and 3.2 GPA in major, and departmental consent

Student conducts a practicum at an approved occupational setting. Student is required to complete four major projects which will be developed in collaboration between the faculty supervisor and the internship supervisor. Student is accountable to an on-site supervisor and required to remain in close contact with a Safety Sciences faculty coordinator.

SAFE 493 Internship

var 1-6cr

Prerequisites: Senior standing, all required courses in major

Applies hazard assessment and management practices to actual workplace safety issues, which requires the student to visit workplace sites. A two-hour weekly debriefing session involves the students in developing their written and oral communication skills. All SAFE students are required to take an internship, either [SAFE 488](#) or SAFE 493.

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Spanish (SPAN)

Department of Spanish
College of Humanities and Social Sciences

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

SPAN 101 Elementary Spanish I	SPAN 382 Contemporary Spain
SPAN 102 Elementary Spanish II	SPAN 383 Geography and History of Spain
SPAN 121 Spanish for Health Care Professionals I	SPAN 384 History of Spanish Art
SPAN 122 Spanish for Health Care Professionals II	SPAN 385 Survey of Spanish Literature
SPAN 131 Spanish for the Hospitality Industry I	SPAN 389 Theory and Practice of Spanish Language
SPAN 132 Spanish for the Hospitality Industry II	SPAN 390 Teaching of Elementary Content Through the Spanish Language
SPAN 201 Intermediate Spanish	SPAN 400 History of the Spanish Language
SPAN 220 Intermediate Spanish Conversation and Grammar	SPAN 402 Translation and Interpretation
SPAN 222 Intermediate Spanish Conversation and Grammar-Business	SPAN 403 Applied Linguistics
SPAN 223 Intermediate Spanish Conversation and Grammar for Pre-Law, Criminology, and Social Services	SPAN 404 Advanced Spanish Grammar
SPAN 230 Intermediate Spanish Composition	SPAN 410 Medieval Literature
SPAN 244 Modern Mexico	SPAN 411 Golden Age Literature
SPAN 260 Introduction to Hispanic Literature	SPAN 412 The Spanish Novel of the Nineteenth and Twentieth Centuries
SPAN 281 Special Topics	SPAN 413 Spanish Poetry of the Nineteenth and Twentieth Centuries
SPAN 290 Spanish for Elementary Teaching	SPAN 420 Modern Hispanic Theater
SPAN 340 Hispanic Civilization Through the Nineteenth Century	SPAN 421 Modern Hispanic Short Story
SPAN 342 Twentieth-Century Spanish Civilization and Culture	SPAN 430 Twentieth-Century Spanish-American Prose
SPAN 344 Twentieth-Century Spanish-American Civilization and Culture	SPAN 431 Spanish-American Poetry
SPAN 350 Advanced Spanish Conversation	SPAN 450 Conversation Forum
SPAN 353 Spanish Phonetics and Phonemics	SPAN 481 Special Topics
SPAN 354 Commercial Spanish	SPAN 482 Independent Study
SPAN 362 Survey of Peninsular Literature	SPAN 483 Honors Thesis
SPAN 364 Survey of Spanish-American Literature	SPAN 493 Internship
SPAN 382-389 Pennsylvania-Valladolid Program	

SPAN 101 Elementary Spanish I

4c-0l-4cr

For beginning students. Primary emphasis is on aural/oral skills. Students 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. Students may not register for or take a D/F repeat in SPAN 101 when credit has already been received for a higher-numbered SPAN course.

SPAN 102 Elementary Spanish II

4c-01-4cr

Prerequisite: [SPAN 101](#), or the equivalent as established by departmental placement examination

A continuation of [SPAN 101](#). Students learn to express past and future time and continue to learn about Hispanic countries and their cultures. Attendance is required. Students may not register for or take a D/F repeat in SPAN 102 when credit has already been received for a higher-numbered SPAN course.

SPAN 121 Spanish for Health Care Professionals I

3c-01-3cr

For beginning students in nursing and other health-related programs. Primary emphasis is on aural/oral skills. Students learn to converse and ask questions related to health care settings in simple present time and near future. They also become acquainted with Hispanic populations and elements of their daily lives. Class and language lab attendance is required. Student may receive credit for only one course from [SPAN 101](#), 111, [121](#), or [131](#).

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SPAN 122 Spanish for Health Care Professionals II

3c-01-3cr

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 learn to express past and future time in health care settings. They read articles about medical issues and short stories which concern health care themes in Hispanic cultures. Class and language lab attendance is required. Student may receive credit for only one course from [SPAN 102](#), [122](#), [132](#), or 211.

SPAN 131 Spanish for the Hospitality Industry I

3c-01-3cr

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. Student may receive credit for only one course from [SPAN 101](#), 111, [121](#), or [131](#).

SPAN 132 Spanish for the Hospitality Industry II

3c-01-3cr

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. Student may receive credit for only one course from [SPAN 102](#), [122](#), [132](#), or 211.

SPAN 201 Intermediate Spanish

4c-01-4cr

Prerequisite: [SPAN 102](#) or equivalent

A continuation of previous work on listening, speaking, reading, and writing skills. Students 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. Attendance is required. Student may not register for or take a D/F repeat in [SPAN 101](#) when credit has already been received for a higher-numbered SPAN course.

SPAN 220 Intermediate Spanish Conversation and Grammar

3c-01-3cr

Prerequisite: [SPAN 201](#) or equivalent

Intensive work on oral communication skills with emphasis on vocabulary building, pronunciation, discourse strategies, and grammar review. (Offered as SPAN 221 prior to 2004-05)

SPAN 222 Intermediate Spanish Conversation and Grammar–Business

3c-01-3cr

Prerequisite: [SPAN 201](#) or equivalent

Same as SPAN 220 but with a special emphasis on the vocabulary and structures used in the business world. Substitutes for [SPAN 220](#).

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SPAN 223 Intermediate Spanish Conversation and Grammar for Pre-Law, Criminology, and Social Services

3c-01-3cr

Prerequisite: [SPAN 201](#) or equivalent

Similar to SPAN 220 but with a special emphasis on the vocabulary and structures used in law enforcement, criminal justice, and social services.

Substitutes for [SPAN 220](#).

SPAN 230 Intermediate Spanish Composition

3c-01-3cr

Prerequisite: [SPAN 220](#) or equivalent

Intensive practice in written expression in Spanish. Both communicative and structural skills are stressed. Taught in Spanish. Required for all majors and minors. Meets Liberal Studies requirement for a writing-intensive course for majors.

SPAN 244 Modern Mexico

3c-01-3cr

Prerequisites: [SPAN 201](#) or equivalent and participation in the Mexico Summer Study Abroad Program

Taught in Mexico as part of the study abroad program; introduces 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 gain firsthand experience both through field trips and by living with a Mexican family. Taught in Spanish.

SPAN 260 Introduction to Hispanic Literature

3c-01-3cr

Prerequisite: [SPAN 230](#) or equivalent

A prerequisite for any 300- or 400-level course in Hispanic literatures. Provides the tools necessary for developing literary competence and 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.

SPAN 281 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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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SPAN 290 Spanish for Elementary Teaching

3c-01-3cr

Prerequisite: [SPAN 201](#) or equivalent oral proficiency rating. For students enrolled in the FLISET Program. Designed for Elementary Education and Early Childhood Education/PreK-Grade 6 majors completing the FLISET Program.

Increases proficiency in Spanish and prepares student for an internship in an elementary school abroad. Emphasizes vocabulary acquisition and strengthening listening and speaking abilities in Spanish. Through in-class interaction and practice in the language laboratory, students improve 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 340 Hispanic Civilization Through the Nineteenth Century

3c-01-3cr

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-01-3cr

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-0l-3cr

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.

SPAN 350 Advanced Spanish Conversation

3c-0l-3cr

Prerequisite: [SPAN 230](#) or equivalent

Extensive practice in oral communication skills. Emphasizes development of fluency in speaking over a wide range of topic areas. Required for all majors and minors. (Offered as SPAN 321 prior to 2004-05)

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SPAN 353 Spanish Phonetics and Phonemics

3c-0l-3cr

An introduction to the phonological study of the sounds and training in pronunciation. Teaches the theoretical basis for understanding the Spanish sound system and perfects pronunciation through classroom practice and tapings. Taught in Spanish. Required for Spanish Education majors; highly suggested for Spanish majors.

SPAN 354 Commercial Spanish

3c-0l-3cr

Prerequisite: [SPAN 230](#) or equivalent

Designed especially for majors in Spanish for International Trade. Has three focuses: teaches how to do business communications in Spanish; teaches the vocabulary necessary for dealing with all aspects of trade and commerce; and introduces the special concerns and practices of business in the Spanish-speaking world. Taught in Spanish.

SPAN 362 Survey of Peninsular Literature

3c-0l-3cr

Prerequisite: [SPAN 260](#) or permission

Introduces 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-0l-3cr

Prerequisite: [SPAN 260](#) or permission

Introduces 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.

SPAN 382-389 Pennsylvania-Valladolid Program

18cr

Prerequisites: [SPAN 230](#) and [260](#) or permission

Contact chairperson, Department of Spanish. Courses taken in Valladolid include the SPAN 382-389 and SPAN 482 (3cr). Descriptions follow.

SPAN 382 Contemporary Spain

3cr

Prerequisites: [SPAN 230](#) and [260](#) or permission

Gives a general view of Spain today in the areas of society, economy, and political institutions. (See SPAN 342)

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SPAN 383 Geography and History of Spain

3cr

Prerequisites: [SPAN 230](#) and [260](#) or permission

Introduces a panorama of Spanish physical, social, and economic geography, including the recent autonomic division of the country and the communication among the autonomies. Also reviews 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

3cr

Prerequisites: [SPAN 230](#) and [260](#) or permission

Exposure to the richness of art in the Iberian Peninsula and in particular in the area of Madrid and Castilla-Leon. Studies the evolution of Spanish art in history, giving more emphasis to contemporary tendencies.

SPAN 385 Survey of Spanish Literature

3cr

Prerequisites: [SPAN 230](#) and [260](#) or permission

Introduces a general study of Spanish literature from its origin to the present time; students learn to appreciate and analyze the different literary genres. Emphasis on twentieth-century literature.

SPAN 389 Theory and Practice of Spanish Language

3cr

Prerequisites: [SPAN 230](#) and [260](#) or permission

Introduces Spanish syntax, morphology, and the Spanish language lexicon, as well as familiar and formal conversation and idiomatic expressions used in everyday situations.

SPAN 390 Teaching of Elementary Content Through the Spanish Language

3c-0l-3cr

Prerequisites: Passage of a language proficiency examination and instructor permission

Studies current theories of language acquisition processes in children and develops 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, students 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.

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SPAN 400 History of the Spanish Language

3c-0l-3cr

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.

SPAN 402 Translation and Interpretation

3c-0l-3cr

Prerequisites: [SPAN 230](#) and [350](#)

Fundamental translation skills for use in business and industry as well as in academic and popular fields.

SPAN 403 Applied Linguistics

3c-0l-3cr

Prerequisite: [SPAN 230](#)

An introduction to Spanish linguistics for students who have had no previous experience in linguistics. Studies the application of areas such as phonology, morphology, syntax, and semantics and explores issues in psycholinguistics and sociolinguistics. Taught in Spanish.

SPAN 404 Advanced Spanish Grammar

3c-0l-3cr

Prerequisites: [SPAN 230](#) and senior standing or departmental permission

An in-depth study of Spanish syntax and morphology. Taught in Spanish. Required for all majors.

SPAN 410 Medieval Literature

3c-0l-3cr

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-0l-3cr

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.

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SPAN 412 The Spanish Novel of the Nineteenth and Twentieth Centuries

3c-01-3cr

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-01-3cr

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.

SPAN 420 Modern Hispanic Theater

3c-01-3cr

Prerequisite: [SPAN 260](#) or permission

The study and analysis of modern dramatic works from Spain and Spanish America. Particular emphasis is given to the representational aspect of the works. Taught in Spanish; offered in four-year rotation.

SPAN 421 Modern Hispanic Short Story

3c-01-3cr

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.

SPAN 430 Twentieth-Century Spanish-American Prose

3c-01-3cr

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-01-3cr

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.

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SPAN 450 Conversation Forum

2c-01-2cr

Prerequisite: [SPAN 350](#) 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. Focuses on paragraph-length discourse and narration and description in present, past, and future time frames within a variety of topics and contexts. (Offered as SPAN 451 prior to 2004-05)

SPAN 481 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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.

SPAN 482 Independent Study

var-1-6cr

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 483 Honors Thesis

var-1-6cr

Prerequisites: Admission to departmental honors program; prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office

An intensive, focused study involving independent research culminating in a written thesis approved by a thesis director and two faculty readers/committee members. May be taken more than once to a maximum of 6sh.

SPAN 493 Internship

var-3-12cr

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 are matched as closely as possible with the intern's personal interests and professional goals. For more information contact the Spanish Department. Maximum of 6cr can be applied toward a major.

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Women's Studies (WMST)

Women's Studies Program Academic Affairs Division

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

WMST 200 Introduction to Women's Studies
WMST 281 Special Topics
WMST 400 Feminist Theory
WMST 430 Gender, Sexuality, and Sport: A Feminist Perspective
WMST 481 Special Topics
WMST 482 Independent Study

WMST 200 Introduction to Women's Studies

3c-0l-3cr

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-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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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WMST 400 Feminist Theory

3c-0l-3cr

A seminar focusing on modern feminist theory. Explores feminist critiques of traditional knowledge, methods, and theories and examines theoretical debates within feminism with an emphasis on the shifting conceptualizations of gender, race, class, and sexual orientation. Also considers the continuing development of distinctive feminist methodologies both inside and outside the academy.

WMST 430 Gender, Sexuality, and Sport: A Feminist Perspective

3c-0l-3cr

An analysis of the complex interaction of race, class, sexuality, and gender within sport throughout the twentieth century. Offers a lens through which to understand both the complicated gender dynamics of sport and the social experience of women athletes, gay and straight; also provides a critical insight into the history of gender relations in American society. The life and legend of Babe Didrikson Zakarias is examined. Students cannot receive duplicate credit for LBST 499 Sport: Gender, Race, Class, and Sexuality.

WMST 481 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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.

WMST 482 Independent Study

var-1-3cr

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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Asian Studies (ASIA)

College of Humanities and Social Sciences

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

ASIA 200 Introduction to Asian Studies

3c-0l-3cr

Focuses on the significance of interactions between Asian cultures. It does so in such a way that students will be able to appreciate both the continuities that allow one to speak of Asia as a coherent region (not only geographically, but also politically, economically, and culturally) and the very real differences that give the region its great variety. Also stresses an in-depth understanding of subtle transformations in meaning as goods, ideas, and practices migrate from one area within Asia to another.



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International Studies (ITST)

Department of Political Science
College of Humanities and Social Sciences

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

ITST 281 Special Topics in Non-Western Studies

var-1-3cr

Focuses on politics, society, and culture of a particular non-Western country or area. Content is variable, depending on the semester. 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-1-3cr

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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Latin American Studies (LAS)

College of Humanities and Social Sciences

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

LAS 281 Special Topics in Latin American Studies
LAS 370 Latinos and Diasporas
LAS 480 Latin American Studies Seminar
LAS 481 Special Topics in Latin American Studies

LAS 281 Special Topics in Latin American Studies

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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.

LAS 370 Latinos and Diasporas

LAS 370 Latinos and Diasporas

3c-0l-3cr

Introduces the global and local dimensions of the changing Latino communities in the United States and examines the communities' multiple connections and dynamic interactions with Latin American diasporas. Towards this end, the course covers: 1) theories on transnational communities, diasporas, the state, and citizenship; 2) Latino cultures and geography; 3) Latin American immigration and labor migration to the United States; and 4) the impact of Latin American diasporic networks on Latino and non-Latino communities. (Cross-listed as [ANTH 370](#))

LAS 480 Latin American Studies Seminar

3c-0l-3cr

A multidisciplinary colloquium emphasizing reading, discussion, and writing on specialized topics related to Latin American society, culture, history, literature, politics, geography, economics, and business. Topics include, but are not limited to, the nature of Pre-Columbian cultures; the effects of colonialism and independence on present-day Latin America; the relationship between Latin America and the United States, Africa, and Europe; and the growing presence and significance of people of Hispanic descent in the United States. Open to all majors; required for Latin American Studies minors.

LAS 481 Special Topics in Latin American Studies

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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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Pan-African Studies (PNAF)

College of Humanities and Social Sciences

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

PNAF 131 Introduction to Pan-African Studies
PNAF 281 Special Topics
PNAF 481 Special Topics
PNAF 482 Independent Study
PNAF 493 Pan-African Studies Internship

PNAF 131 Introduction to Pan-African Studies

3c-0l-3cr

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-0l-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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-0l-3cr

Prerequisite: Instructor permission and program coordinator

Offered on an experimental or temporary basis to explore topics not 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-3cr

Prerequisite: Prior approval through advisor, faculty member, program coordinator, dean, and Provost's Office

Students with interest in an 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.

PNAF 493 Pan-African Studies Internship

3-12cr

Prerequisites: Instructor permission; 9cr completed and/or with coordinator's permission

Offers practical experience in a field where knowledge of and understanding of the Pan-African world and/or people of African descent is directly utilized.

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Critical Languages (CRLG)

College of Humanities and Social Sciences

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

CRLG 101-120 Critical Languages I
CRLG 151-170 Critical Languages II
CRLG 201-220 Critical Languages III
CRLG 251-270 Critical Languages IV

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-0l-3cr

Basic vocabulary and pronunciation in the target language. Oral/aural skills are stressed.

CRLG 101 Arabic I

CRLG 102 Chinese I

CRLG 103 Dutch I

CRLG 104 Finnish I

CRLG 105 Hindi I

CRLG 106 Hungarian I

CRLG 108 Japanese I

CRLG 109 Korean I

CRLG 110 Modern Greek I

CRLG 111 Portuguese I

CRLG 112 Russian I

CRLG 113 Swedish I

CRLG 114 Hebrew I

CRLG 115 Swahili I

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CRLG 151-170 Critical Languages II

3c-0l-3cr

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 Arabic II

CRLG 152 Chinese II

CRLG 153 Dutch II

CRLG 154 Finnish II

CRLG 155 Hindi II

CRLG 156 Hungarian II

CRLG 158 Japanese II

CRLG 159 Korean II

CRLG 160 Modern Greek II

CRLG 161 Portuguese II

CRLG 162 Russian II
CRLG 163 Swedish II
CRLG 164 Hebrew II
CRLG 165 Swahili II

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CRLG 201-220 Critical Languages III

3c-0l-3cr

Prerequisite: Level II or acceptable equivalent

At this first intermediate level, students begin to develop a degree of oral proficiency that varies with the language studied. Reading and writing are studied in all languages by this level.

CRLG 201 Arabic III
CRLG 202 Chinese III
CRLG 203 Dutch III
CRLG 204 Finnish III
CRLG 205 Hindi III
CRLG 206 Hungarian III
CRLG 208 Japanese III
CRLG 209 Korean III
CRLG 210 Modern Greek III
CRLG 211 Portuguese III
CRLG 212 Russian III
CRLG 213 Swedish III
CRLG 214 Hebrew III
CRLG 215 Swahili III

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CRLG 251-270 Critical Languages IV

3c-0l-3cr

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 varies with language.

CRLG 251 Arabic IV
CRLG 252 Chinese IV
CRLG 253 Dutch IV
CRLG 254 Finnish IV
CRLG 255 Hindi IV
CRLG 256 Hungarian IV
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
CRLG 265 Swahili IV

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Liberal Studies (LBST)

Liberal Studies Program Academic Affairs Division

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

LBST 499 Senior Synthesis

3c-0l-3cr

Prerequisite: 73cr or more 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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Military Science

Chairperson: Maj. Jeffrey M. Metzger

Faculty: Capt. Goloversic, Maj. LeVeille, M. Sgt. Sprinkle, Capt. Ziegenfuss

Website: www.iup.edu/rotc

Reserve Officers' Training Corps

ROTC Basic Course

Scholarships

What ROTC Offers

ROTC Advanced Course

Program in Military Science

Reserve Officers' Training Corps

The United States Army established a Senior Reserve Officers' Training Corps program at the university in 1950. The ROTC program teaches leadership training that students can apply throughout their careers, be they in business, industry, technology, education, the physical sciences, or the humanities. All Military Science credits count toward graduation, and students who complete the total program can earn a commission as a second lieutenant and receive placement in one of twenty-four professional officer specialties in the U.S. Army, including Military Intelligence, Military Police, Signal, Medical Service, and the Corps of Engineers.

The ROTC program is divided into two phases: the Basic Course (freshman and sophomore years) and the Advanced Course (junior and senior years). In most cases, students progress through the ROTC program by enrolling in [MLSC 101](#) and [102](#) as freshmen. By taking [MLSC 101](#) and [102](#), the student fulfills the university's 3-credit Liberal Studies requirement in Health and Wellness. Students who continue in the Basic Course by enrolling in [MLSC 203](#) and [204](#) as sophomores incur no military obligation, but they retain the opportunity to compete for a full-tuition ROTC scholarship. Whether they win an ROTC scholarship or not, all students who complete the Basic Course are eligible to enroll in the ROTC Advanced Course. All Advanced Course students receive financial assistance while they are enrolled in the Advanced Course.

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What ROTC Offers

- ROTC offers a comprehensive academic program in military leadership and teaches practical skills such as self-defense, adventure training, rappelling, marksmanship, orienteering, and first-aid techniques.
- Regular ROTC classes for two semesters satisfy the mandatory Health and Wellness Liberal Studies requirement for graduation.
- Equipment, ROTC textbooks, and uniforms are issued, without cost, to enrolled students.
- Students enrolled in the Basic Course ([MLSC 101](#), [102](#), [203](#), and [204](#)) become eligible for full-tuition scholarships and enrollment in the ROTC Advanced Course.
- Students formally enrolled in the Advanced Course ([MLSC 305](#), [306](#), [407](#), and [408](#)) receive a cash stipend (\$300-500 each month) for ten months during the academic year and receive \$900 each year for books.
- Students who complete the Advanced Course and graduate from the university receive commissions as second lieutenants and serve in one of three Army components: Active Army, National Guard, or Army Reserve.

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ROTC Basic Course

The first two years of Military Science ([MLSC 101](#), [102](#), [203](#), and [204](#)) provide a background of the historical role of military forces as well as current national military objectives. In addition, students develop basic leadership skills in problem solving and decision making and learn survival techniques, map reading, self-defense, rappelling, and marksmanship. Graduates of the Basic Course incur no commitment to enroll in the ROTC Advanced Course and incur no obligation for military service. Students may enroll or withdraw from any of the four courses in the ROTC Basic Course under the same provisions and in the same manner as other academic courses at IUP. Veterans of U.S. Armed Forces, Junior ROTC and Civil Air Patrol graduates, and students who complete the ROTC Leaders Training Course at Fort Knox, Kentucky, may receive exemption from the ROTC Basic Course if approved by the Professor of Military Science, but they will not automatically receive academic credit for the course.

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ROTC Advanced Course

The last two years of Military Science ([MSLC 305](#), [306](#), [407](#), and [408](#)) compose the Advanced Course and lead to a commission as an officer in the United States Army. To be eligible to enroll in the Advanced Course, a student must meet these criteria: be a citizen of the United States; be physically fit and pass a physical examination; be an enrolled academic junior or senior with at least a 2.0 GPA; be not less than seventeen years of age but less than thirty by the anticipated graduation date; successfully complete the ROTC Basic Course or its equivalent; and be accepted by the Professor of Military Science. Advanced Course students study advanced leadership, management, professional ethics, small unit tactics, military law, and instructional and training techniques. Practical application is the rule, and students have the opportunity to practice and polish their skills as members of the ROTC battalion leadership. Once Advanced Course students agree in writing to complete the Advanced Course, graduate on time, and accept a commission as an officer, they become eligible to receive a monthly cash stipend of \$450-\$500 for ten months of the academic year and also receive \$900 a year for books.

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Scholarships

High school seniors who have applied to IUP can apply on line for IUP Army ROTC scholarships at www.armyrotc.com. Currently enrolled IUP undergraduate students can compete for two- and three-year ROTC scholarships, and graduate students can compete for two-year ROTC scholarships even if they are not currently enrolled in Military Science courses. To be fully eligible, applicants must meet these criteria: 2.5 GPA, full-time student, U.S. citizen, physically qualified, and administratively qualified. Regardless of the term of the scholarship (either two, three, or four years), all IUP ROTC scholarships offer these benefits for each year that the scholarship is in effect: full tuition (up to \$10,000), \$900 for books, and \$300-\$500 per month for ten months of the school year. Call 1-800-IUP-ROTC for application instructions.

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Program in Military Science		20
Required Courses:		
MLSC 101	Introduction to Military Science (1)	2cr
MLSC 102	Fundamentals of Military Science (1)	2cr
MLSC 203	Fundamentals of Tactical Operations, Techniques of Leadership, and Weapons Characteristics (2)	2cr
MLSC 204	National Security and Fundamentals of Military Topography (2)	2cr
MLSC 305	Fundamentals of Leadership and Modern Learning/Teaching Relationship	3cr
MLSC 306	Study of Advanced Leader Planning and Execution of Modern Combat Operations	3cr
MLSC 407	Management of the Military Complex to Include Fundamentals of Military and International Law	3cr
MLSC 408	Seminar in Military Analysis and Management	3cr
(1) MLSC 101-102 may substitute for the Liberal Studies requirement in Health and Wellness.		
(2) MLSC 203-204 are available as free electives to all students without any military obligation.		

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Robert E. Cook Honors College

Director: Janet E. Goebel

Website: www.iup.edu/honors

The Robert E. Cook Honors College is IUP's universitywide honors program for undergraduate students of all majors who are accepted into the program. Its goal is to provide a unique educational environment in which students of high ability and motivation can achieve their potential in a nurturing learning community of fellow students and professors. The Honors College makes an intentional effort to see that students and faculty are provided with integrated courses, an appreciation for multiple perspectives on important issues, and common learning experiences wherever possible; it strives to see that the learning community remains cohesive with both academic and cocurricular components throughout the four years of the student's honors experience.

The Robert E. Cook Honors College provides a challenging opportunity for academic and personal development through an integrated program of curriculum, residence, and cocurricular activities. Whitmyre Hall has been renovated into a combined honors residential/academic facility which includes classrooms and program offices as well as student rooms and cocurricular spaces.

Students in any academic major may apply for admission to the Honors College. Students may enter the program as freshmen or later as sophomore "transfer" students from either another university or from IUP. An application is required and is evaluated by the Honors College Admissions Board.

Requirements of the Program

Students accepted into the Robert E. Cook Honors College as freshmen are required to live in Whitmyre Hall during the freshman year and are encouraged to remain in the honors residence hall throughout their undergraduate career as space permits. Exceptions to the freshman residency requirements will be made only for nontraditional students (students twenty-five or older or students who are married and/or have children) or for students who reside at home with their legal guardians in the Indiana area while at IUP. Application for exemption from the freshman residency requirement should be made in the form of a letter to the Honors College Director at the time of application to the program.

Students in the Honors College are required to maintain an overall 3.25 GPA. A student who falls below the 3.25 GPA will have one semester of Honors College probation during which he/she may attempt to raise the GPA to 3.25 and remain in good standing. Students who are dismissed from the Honors College due to GPA may apply for readmission after having raised the GPA to acceptable honors standards.

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Course Requirements for Students Admitted as Freshmen

Students admitted as freshmen are required to complete 24 credits of honors work including:

- 18 hours: Honors Core I, II, III ([HNRC 101](#), [102](#), [201](#)) and Honors Core: Sciences ([HNRC 202](#)). [HNRC 101](#) and [102](#) is a first-year sequence; [HNRC 201](#) and [202](#) may be taken in either order during subsequent semesters. [HNRC 101](#), [102](#), and [201](#) replace Liberal Studies requirements for College Writing ([ENGL 101](#)), three humanities courses ([ENGL 121](#), [HIST 195](#), and either [RLST 100](#) or [PHIL 120](#)), and one fine arts course (either [ARHI 101](#), [MUHI 101](#), or [THTR 101](#)). [HNRC 202](#) replaces Liberal Studies requirements for either one nonlaboratory science and one social science *or* two nonlaboratory sciences *or* two social sciences, depending on the units selected.
- 3 hours: [HNRC 499](#) Honors Synthesis (replaces Liberal Studies requirement for [LBST 499](#))
- 3 hours: Additional honors coursework

Students are encouraged to complete at least one honors course during every academic year, although it is recognized that this might not be possible for students participating in study abroad or off-campus internships. For information on departmental honors programs, please see the individual college listings. Departmental honors courses count toward the total number of honors credit hours required for Honors College graduation.

Students are also encouraged to complete an undergraduate thesis for graduation from the Honors College with distinction. Students may enroll for

thesis credit by completing the necessary approval forms and scheduling [HNRC 483](#) Honors Thesis/Independent Study or, in some departments, by scheduling a departmental honors thesis course.

Applicants who may be interested in further information are invited to contact IUP's Admissions Office at 724-357-2230 or 1-800-442-6830 or the office of the Honors College in Whitmyre Hall at 724-357-4971.

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The University Libraries

Dean: Rena K. Fowler

Interim Associate

Phillip J. Zorich

Dean:

Chairperson: Sandra L. Janicki

Faculty: Brown, Clouser, Connell, Diaz-Martin, Drummond, Heider, Hooks, Janosko, Jen, Knupp, McDevitt, Rahkonen, Shively

Professors emeriti: Chamberlin, LaFranchi, Laude, Scheeren, Snead, Steiner, Wolf

Website: www.iup.edu/library

The IUP Libraries serve the academic and scholarly needs of students and faculty with 863,363 volumes, and 1,784 journal titles, as well as media, micro documents, and information databases. In addition to the main facility, there is a library at each of the regional campuses at Northpointe and Punxsutawney, as well as the Orendorff Music Library in Cogswell Hall. The online catalog is accessible throughout the libraries and on the Internet from remote locations. IUP students can use a variety of electronic resources, including abstracts, statistics, and full-text articles on line.

Library faculty members offer individual and group instruction in using the library and several credit courses.



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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Department of Accounting

Chairperson: Germain P. Kline
Faculty: Anderson, Bradwick, Ghobashy, Joseph, Kline, Ponko, Rahman, Woan
Professor emeritus: Robbins

Website: www.iup.edu/accounting

Bachelor of Science–Accounting
Associate of Arts in Business Specializing in Accounting
Minor–Accounting

Accounting majors receive instruction in financial reporting system design and analysis, managerial accounting, taxation, and nonprofit accounting leading to career opportunities in public, industry, and government accounting.

Bachelor of Science–Accounting

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 115 Social Science: ECON 121 , PSYC 101 Liberal Studies Electives: 9cr, BTED/COSC/IFMG 101 , ECON 122 , MATH 214 , no courses with ACCT prefix		55
College: Business Administration Core		33
Required Courses:		
ACCT 201	Accounting Principles I	3cr
ACCT 202	Accounting Principles II	3cr
BLAW 235	Legal Environment of Business	3cr
BTST 321	Business and Interpersonal Communications	3cr
FIN 310	Fundamentals of Finance	3cr
IFMG 300	Information Systems: Theory and Practice	3cr
MGMT 310	Principles of Management	3cr
MGMT 330	Production and Operations Management	3cr
MGMT495	Business Policy	3cr
MKTG 320	Principles of Marketing	3cr
QBUS 215	Business Statistics	3cr
Major: Accounting (1)		27
Required Courses:		
ACCT 303	Financial System Analysis	3cr

ACCT 304	Intermediate Accounting I	3cr
ACCT 305	Intermediate Accounting II	3cr
ACCT 311	Cost Accounting	3cr
ACCT 401	Advanced Accounting	3cr
ACCT 421	Federal Tax I	3cr
ACCT 431	Auditing	3cr
Controlled Electives: Two courses from the following: ACCT 412, 422, 432, 441, 451, 461, 471, BLAW 336		6cr
Free Electives: (2)		5
Total Degree Requirements:		120
<p>(1) Students must meet the grade prerequisite(s) listed in the course description section of this catalog prior to advancing to the next course.</p> <p>(2) 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 60cr) in nonbusiness coursework.</p>		

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Associate of Arts in Business Specializing in Accounting

The Associate of Arts degree with a major 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 credits earned in the associate program will qualify towards the four-year degree program in accounting.

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Associate of Arts–Business Specializing in Accounting

Liberal Studies: As outlined in the Liberal Studies Section with the following specifications: English: ENGL 101, 202 Fine Arts: 3cr Health and Wellness: 3cr Humanities: 3cr (1) Mathematics: 4cr (2) Natural Science: 4cr Social Science: PSYC 101 Liberal Studies Electives: 3cr, ECON 122		30
Business Requirements		30
Required Courses:		
ACCT 201	Accounting Principles I	3cr
ACCT 202	Accounting Principles II	3cr
ACCT 303	Financial System Analysis	3cr
ACCT 304	Intermediate Accounting I	3cr
ACCT 311	Cost Accounting	3cr
ACCT 421	Federal Tax I	3cr
BLAW 235	Legal Environment of Business	3cr
BTST 321	Business and Interpersonal Communications	3cr
MGMT 310	Principles of Management	3cr
MKTG 320	Principles of Marketing	3cr


Total Degree Requirements:	60
(1) ENGL 121 , HIST 195 , or PHIL/RLST designated courses.	
(2) MATH 115 is required in fulfilling four-year accounting degree curriculum requirements.	

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Minor–Accounting (1) **18**
 (for Business Majors in the Eberly College of Business and Information Technology only)

Required Courses:		12
ACCT 201	Accounting Principles I	3cr
ACCT 202	Accounting Principles II	3cr
ACCT 303	Financial System Analysis	3cr
ACCT 304	Intermediate Accounting I	3cr
Two courses from the following:		6
ACCT 305	Intermediate Accounting II	3cr
ACCT 311 <i>or</i> ACCT 300	Cost Accounting <i>or</i> Managerial Accounting	3cr
ACCT 421/422	Federal Tax I/Federal Tax II	3cr/6cr
ACCT 431/432	Auditing /Forensic and Internal Auditing	3cr/6cr
(1) Minor course requirements must be completed with a minimum cumulative GPA of 2.0.		

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Department of Finance and Legal Studies

Chairperson: Ibrahim Affaneh
Faculty: Ames, Boldin, Chaudhry, Eastman, Gart, Ray, Troxell,
Welker
Professor emeritus: Strock

Website: www.iup.edu/financelegal

Bachelor of Science–Finance Minor–Finance

Finance Major

The Finance major, leading to a degree of Bachelor of Science, is designed to educate students who are interested in pursuing one of the many career opportunities within the areas of corporate and personal financial management, banking, insurance, other financial institutions, and investments.

The objective of the Finance program is to provide students with a broad base of knowledge, both theoretical and practical, as well as the analytical and technical skills necessary to build a successful career in an exciting and rapidly changing field.

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.

Bachelor of Science–Finance (*)

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 115 Social Science: ECON 121 , PSYC 101 Liberal Studies Electives: 9cr, BTED/COSC/IFMG 101 , ECON 122 , MATH 214 , no courses with FIN prefix	55
College: Business Administration Core	33
Required Courses:	
ACCT 201 Accounting Principles I	3cr
ACCT 202 Accounting Principles II	3cr
BLAW 235 Legal Environment of Business	3cr
BTST 321 Business and Interpersonal Communications	3cr
FIN 310 Fundamentals of Finance	3cr
IFMG 300 Information Systems: Theory and Practice	3cr
MGMT 310 Principles of Management	3cr
MGMT 330 Production and Operations Management	3cr
MGMT495 Business Policy	3cr

MKTG 320	Principles of Marketing	3cr	
QBUS 215	Business Statistics	3cr	
Major: Finance			27
Required Courses:			
FIN 315	Financial Analysis Using Electronic Spreadsheets	3cr	
FIN 320	Corporate Finance	3cr	
FIN 324	Principles of Investments	3cr	
FIN 360	Insurance and Risk Management	3cr	
FIN 410	Financial Institutions and Markets	3cr	
FIN 422	Seminar in Finance	3cr	
Controlled Electives:			9cr
Three courses from the following: ACCT 305 , 421 , BLAW 336 , 440 , FIN 350 , 420 , 424 , 425 , 481 , 493 , REAL 382			
One course from the following: ECON 325 , 334 , 345 , 356			
Free Electives: (*)			5
Total Degree Requirements:			120
(*) Distribution Requirements: 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 60cr) in nonbusiness coursework.			

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Minor–Finance

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

Required Courses:			9
FIN 310	Fundamentals of Finance	3cr	
FIN 320	Corporate Finance	3cr	
FIN 324	Principles of Investments	3cr	
Controlled Electives: Two courses from the following:			6
FIN 315	Financial Analysis Using Electronic Spreadsheets	3cr	
FIN 360	Insurance and Risk Management	3cr	
FIN 410	Financial Institutions and Markets	3cr	
FIN 420	Investment Analysis	3cr	
FIN 424	International Financial Management	3cr	
REAL 382	Real Estate Fundamentals	3cr	

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Department of Management

Chairperson: Prashanth N. Bharadwaj
Faculty: Ali, Anderson, Ashamalla, Falcone, Gibbs, Mohamed, Orife, Osborne, Slack, Soni, Wisnieski
Professor emeritus: Stevenson

Website: www.iup.edu/management

Bachelor of Science–Management

- [General Management Track](#)
- [Operations Management Track](#)
- [Entrepreneurship and Small Business Management Track](#)

[Bachelor of Science–Human Resources Management](#)

[Bachelor of Science–International Business](#)

[Minor–Management](#)

[Minor–Entrepreneurship](#)

Graduates holding the Bachelor of Science degree with a major in Management 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 valuable.

The department offers three separate degree programs: Management, Human Resources Management, and International Business.

The Bachelor of Science degree with a major in **Management** offers three tracks in which students can choose to concentrate: General Management, Operations Management, and Entrepreneurship and Small Business Management.

- **General Management Track.** While both management theory and application are taught in all of the department's majors, the track is distinguished by its emphasis upon the achievement of organized goals through the efforts of organization members.
- **Operations Management Track.** Students in this track are well grounded in both theory and application, focusing on production, operations, quality issues, and inventory and capacity management.
- **Entrepreneurship and Small Business Management Track.** Students taking this track will focus on creation and operation of a small business. This track is also for graduates who will be working in small businesses where the manager often must perform several managerial roles and manage several functions.

The Bachelor of Science degree with a major 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 degree with a major 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 (finance, human resources, marketing). The combination of these two objectives enables students to successfully perform in today's competitive global economy.

Bachelor of Science–Management/General Management Track

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 115 Social Science: ECON 121 , PSYC 101 Liberal Studies Electives: 9cr, BTED/COSC/IFMG 101 , ECON 122 , MATH 214 , no courses with MGMT prefix	55
College: Business Administration Core	33
Required Courses:	
ACCT 201 Accounting Principles I	3cr
ACCT 202 Accounting Principles II	3cr
BLAW 235 Legal Environment of Business	3cr
BTST 321 Business and Interpersonal Communications	3cr
FIN 310 Fundamentals of Finance	3cr
IFMG 300 Information Systems: Theory and Practice	3cr
MGMT 310 Principles of Management	3cr
MGMT 330 Production and Operations Management	3cr
MGMT495 Business Policy	3cr
MKTG 320 Principles of Marketing	3cr
QBUS 215 Business Statistics	3cr
Major:	21
Required Courses:	
ECON XXX Any advanced 300-400-level ECON course	3cr
MGMT 300 Human Resource Management	3cr
MGMT 311 Human Behavior in Organizations	3cr
MGMT 428 Seminar in Management	3cr
MGMT/MKTG 432 Business and Society	3cr
MGMT/ACCT or ACCT 300 Any one MGMT course <i>or</i> Managerial Accounting	3cr
MGMT 451 International Management	3cr
Controlled Electives: (1)	6
Students must select two advanced Business electives from 300-level courses or above. No more than 3cr of MGMT 493 may be used to meet this requirement.	6cr
Free Electives: (2)	5
Total Degree Requirements:	120
(1) MGMT 275 will be considered an advanced business elective. (2) General Management track majors are required to take a minimum of 50 percent of their degree requirements–i.e., a minimum of 60cr–in nonbusiness coursework. The first 9cr of Economics (ECON 121 , 122 , and the advanced elective, ECON 330 or 334) will be considered "nonbusiness" for purposes of this calculation. Given the foregoing, a minimum of 5cr of free electives must be taken in nonbusiness coursework by most Management Department majors.	

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Bachelor of Science–Management/Operations Management Track

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 115 Social Science: ECON 121 , PSYC 101 Liberal Studies Electives: 9cr, BTED/COSC/IFMG 101 , ECON 122 , MATH 214 , no courses with MGMT prefix	55

College: Business Administration Core		33
Required Courses:		
ACCT 201	Accounting Principles I	3cr
ACCT 202	Accounting Principles II	3cr
BLAW 235	Legal Environment of Business	3cr
BTST 321	Business and Interpersonal Communications	3cr
FIN 310	Fundamentals of Finance	3cr
IFMG 300	Information Systems: Theory and Practice	3cr
MGMT 310	Principles of Management	3cr
MGMT 330	Production and Operations Management	3cr
MGMT495	Business Policy	3cr
MKTG 320	Principles of Marketing	3cr
QBUS 215	Business Statistics	3cr
Major:		
		27
Required Courses:		
ACCT 300	Managerial Accounting	3cr
MGMT 300	Human Resource Management	3cr
MGMT 434	Quality Management	3cr
MGMT 437	Operations Management System	3cr
MGMT 438	Seminar in Operations Management	3cr
Controlled Electives:		
One course from the following: ECON 330 , 334		3cr
Three courses from the following: ACCT 311 , BTST 342 , IFMG 251 , 350 , MGMT 311 , 400 , 401 , 481 , 493 , MGMT/MKTG 350 , MGMT/MKTG 432 , MKTG 420 , 434 , QBUS 380 , 401 , SAFE 101		9cr
Free Electives: (1)		
		5
Total Degree Requirements:		
		120
<p>(1) Operations Management track majors are required to take a minimum of 50 percent of their degree requirements—i.e., a minimum of 60cr—in nonbusiness coursework. The first 9cr of Economics (ECON 121, 122, and the elective, ECON 330 or 334) will be considered "nonbusiness" for purposes of this calculation. Given the foregoing, a minimum of 5cr of free electives must be taken in nonbusiness coursework by most Management Department majors.</p>		

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Bachelor of Science—Management/Entrepreneurship and Small Business Management Track

Liberal Studies: As outlined in Liberal Studies section with the following specifications:		55
Mathematics: MATH 115		
Social Science: ECON 121 , PSYC 101		
Liberal Studies Electives: 9cr, BTED/COSC/IFMG 101 , ECON 122 , MATH 214 , no courses with MGMT prefix		
College: Business Administration Core		
		33
Required Courses:		
ACCT 201	Accounting Principles I	3cr
ACCT 202	Accounting Principles II	3cr
BLAW 235	Legal Environment of Business	3cr
BTST 321	Business and Interpersonal Communications	3cr
FIN 310	Fundamentals of Finance	3cr
IFMG 300	Information Systems: Theory and Practice	3cr
MGMT 310	Principles of Management	3cr
MGMT 330	Production and Operations Management	3cr
MGMT495	Business Policy	3cr

MKTG 320	Principles of Marketing	3cr	
QBUS 215	Business Statistics	3cr	
Major:			27
Required Courses:			
ACCT 300	Managerial Accounting	3cr	
MGMT 275	Introduction to Entrepreneurship	3cr	
MGMT 325	Small Business Management	3cr	
MGMT 403	Small Business Planning	3cr	
MGMT 492	Small Business/Entrepreneurship Internship	6cr	
Major Area Restricted Electives		9cr	
Free Electives: (1)			5
Total Degree Requirements:			120
(1) Entrepreneurship and Small Business Management track majors are required to take a minimum of 50 percent of their degree requirements–i.e., a minimum of 60cr–in nonbusiness coursework. The first 9cr of Economics (ECON 121 , 122 , and the elective, ECON 330 or 334) will be considered "nonbusiness" for purposes of this calculation. Given the foregoing, a minimum of 5cr of free electives must be taken in nonbusiness coursework by most Management Department majors.			

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Bachelor of Science–Human Resources Management

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 115 Social Science: ECON 121 , PSYC 101 Liberal Studies Electives: 9cr, BTED/COSC/IFMG 101 , ECON 122 , MATH 214 , no courses with MGMT prefix			55
College: Business Administration Core			33
Required Courses:			
ACCT 201	Accounting Principles I	3cr	
ACCT 202	Accounting Principles II	3cr	
BLAW 235	Legal Environment of Business	3cr	
BTST 321	Business and Interpersonal Communications	3cr	
FIN 310	Fundamentals of Finance	3cr	
IFMG 300	Information Systems: Theory and Practice	3cr	
MGMT 310	Principles of Management	3cr	
MGMT 330	Production and Operations Management	3cr	
MGMT495	Business Policy	3cr	
MKTG 320	Principles of Marketing	3cr	
QBUS 215	Business Statistics	3cr	
Major: Human Resource Management			
Required Courses:			18
ECON 330	Labor Economics	3cr	
MGMT 300	Human Resource Management	3cr	
MGMT 400	Compensation Management	3cr	
MGMT 401	Management Development and Training	3cr	
MGMT 402 or MGMT 428	Seminar in Human Resource Management <i>or</i> Seminar in Management	3cr	
MGMT 405	Organizational Staffing	3cr	
Controlled Electives: Select three courses from the following:			9
ACCT 300 , BTST 342 , ILR 480 , MGMT/MKTG 432 , MGMT 311 , 406 , 434 ,		9cr	

451, 452, 493, PSYC 390, 411, SAFE 101, SOC 340, 348, 362	
Free Electives: (1)	5
Total Degree Requirements:	120
(1) Human Resources Management majors are required to take a minimum of 50 percent of their degree requirements—i.e., a minimum of 60cr—in nonbusiness coursework. The first 9cr of Economics (ECON 121 , 122 , and 330) will be considered "nonbusiness" for purposes of this calculation. Given the foregoing, a minimum of 5cr of free electives must be taken in nonbusiness coursework by most Management department majors.	

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Bachelor of Science–International Business

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Humanities: PHIL 222 Mathematics: MATH 115 Social Science: ECON 121 , PSYC 101 , ANTH 110/ANTH 211/GEOG 104/PLSC 101 Liberal Studies Electives: 9cr, BTED/COSC/IFMG 101 , ECON 122 , MATH 214 , no courses with MGMT prefix	55
College: Business Administration Core	33
Required Courses:	
ACCT 201 Accounting Principles I	3cr
ACCT 202 Accounting Principles II	3cr
BLAW 235 Legal Environment of Business	3cr
BTST 321 Business and Interpersonal Communications	3cr
FIN 310 Fundamentals of Finance	3cr
IFMG 300 Information Systems: Theory and Practice	3cr
MGMT 310 Principles of Management	3cr
MGMT 330 Production and Operations Management	3cr
MGMT495 Business Policy	3cr
MKTG 320 Principles of Marketing	3cr
QBUS 215 Business Statistics	3cr
Foreign Language Requirement (1)	0-9
Foreign Residency Requirement (2)	
Major: International Business	12
Required Courses:	
ECON 345 International Trade	3cr
MGMT/MKTG 350 International Business	3cr
MGMT 454 International Competitiveness	3cr
MGMT 459 Seminar in International Management	3cr
Concentration area courses: (select one concentration; choose three of the four courses in the chosen area)	9
<i>Finance Concentration:</i>	
FIN 320 Corporate Finance	3cr
FIN 324 Principles of Investments	3cr
FIN 410 Financial Institutions and Markets	3cr
FIN 424 International Financial Management	3cr
<i>Human Resources Management Concentration:</i>	
MGMT 300 Human Resource Management	3cr
MGMT 400 Compensation Management	3cr
MGMT 402 Seminar in Human Resource Management	3cr

MGMT 452	Comparative Management	3cr	
<i>Marketing Concentration:</i>			
MKTG 321	Consumer Behavior	3cr	
MKTG 420	Marketing Management	3cr	
MKTG 421	Marketing Research	3cr	
MKTG 430	International Marketing	3cr	
Free Electives:			2-11
Total Degree Requirements:			120
<p>(1) Candidates must demonstrate a conversational proficiency in a foreign language. This requirement may be met by: (a) successful completion of 9 intermediate-level credits 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.</p> <p>(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 academic advisor's recommendation. The foreign language requirement is a prerequisite to the foreign residency requirement.</p>			

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Minor–Management

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

Required Courses:			9
ILR 480	Principles and Practices of Collective Bargaining	3cr	
MGMT 300	Human Resource Management	3cr	
MGMT 401	Management Development and Training	3cr	
Two courses from the following:			6
ECON 330	Labor Economics	3cr	
MGMT 402	Seminar in Human Resource Management	3cr	
SAFE 101	Introduction to Occupational Safety and Health	3cr	
(1) Minor course requirements must be completed with a minimum cumulative GPA of 2.0.			

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Minor in Entrepreneurship (for Fine Arts Students)

The minor in Entrepreneurship for nonbusiness majors program assumes no prior knowledge of business. Fine arts students are usually involved in starting and running their own business, developing and starting small performing groups, and developing and running nonprofit community theaters. Students would develop the skills necessary to evaluate opportunities within their industry. They would learn, among other things, to 1) analyze their competition, 2) develop marketing and financial plans, 3) explain intellectual property rights, 4) negotiate contracts, and 5) write a business plan that could be used to obtain financing from banks, investors, or other sources of funding. These skills are all central to the creation and development of new ventures. This is a joint effort of four departments and represents an 18-credit minor for fine arts majors. The program is designed to give nonbusiness majors a general background in starting and running a small business.

Minor–Entrepreneurship

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(for Fine Arts Majors)

Required Courses:			18
ACCT 200	Foundations of Accounting	3cr	
BTST 321	Business and Interpersonal Communications	3cr	
MGMT 275	Introduction to Entrepreneurship	3cr	
MGMT 325	Small Business Management	3cr	

MGMT 450	Case Studies in Arts Management	3cr
MKTG 311	Arts Marketing	3cr

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Department of Management Information Systems and Decision Sciences

Chairperson: Elizabeth M. Pierce
Faculty: Albohali, Gu, Hyde, Nahouraii, Pankaj, Rodger, Wang, Wibowo
Professor emeritus: Shildt

Website: www.iup.edu/mis-desci

Bachelor of Science–Management Information Systems Minor–Management Information Systems

Management Information Systems prepares students for careers in computer-based information systems in organizational environments. Newer areas such as networking, cybersecurity, 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, as well as an emphasis on business computing issues such as profitability, budgeting, collaboration, and project management. These adhere to standards for a balanced curriculum as promulgated by the Association for Information Systems (AIS), the technology-accrediting arm of the Association to Advance Collegiate Schools of Business (AACSB). AIS now comprises organizations such as AITP, SIMS, TIMS, ORSA and ICIS.

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.

Bachelor of Science–Management Information Systems (*)

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 115 (1) Social Science: ECON 121 , PSYC 101 Liberal Studies Electives: 9cr, BTED/COSC 101 , ECON 122 , MATH 214 (2), no courses with IFMG prefix	55
College: Business Administration Core	33
Required Courses:	
ACCT 201 Accounting Principles I	3cr
ACCT 202 Accounting Principles II	3cr
BLAW 235 Legal Environment of Business	3cr
BTST 321 Business and Interpersonal Communications	3cr

FIN 310	Fundamentals of Finance	3cr
IFMG 300	Information Systems: Theory and Practice	3cr
MGMT 310	Principles of Management	3cr
MGMT 330	Production and Operations Management	3cr
MGMT495	Business Policy	3cr
MKTG 320	Principles of Marketing	3cr
QBUS 215	Business Statistics	3cr
Major: Management Information Systems		27-28
Required Courses:		
IFMG 210	Introduction to Front-End Business Applications	3cr
IFMG 230 <i>or</i> COSC 220	Introduction to Back-End Business Applications <i>or</i> Applied Computer Programming	3cr 4cr
IFMG 250	Business Systems Technology	3cr
IFMG/COSC 352	LAN Design and Installation	3cr
IFMG 450	Data Base Theory and Practice	3cr
IFMG 460	Analysis and Logical Design	3cr
IFMG 475	Project Management and Implementation	3cr
Controlled Electives: Select any two courses from the following categories: <i>Software Development:</i> COSC 110, 300, 304, 310, 344, 345, 362, IFMG 330 <i>Networks and Cybersecurity:</i> COSC 316, CRIM 321, 323, COSC/IFMG 354, IFMG 368, 382, 480 <i>Database and Decision Support:</i> IFMG 455, 465, QBUS 380, 401, 481 <i>Special Topics, Internships, and Seminars:</i> IFMG 481, 485, 493		6cr
Free Electives:		4-5
Total Degree Requirements:		120
(*) 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 60cr) in nonbusiness coursework. (1) MATH 115 or 121 or 123 . (2) MATH 214 or 216 or 217 .		

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Minor–Management Information Systems

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

Required Courses:		
IFMG 210	Introduction to Front-End Business Applications	3cr
IFMG 230	Introduction to Back-End Business Applications	3cr
IFMG 300	Information Systems: Theory and Practice (1)	3cr
Controlled Electives: (2)		
Select 6cr from any IFMG courses except IFMG 101 and 201		6cr
(1) IFMG 300 is both a core course and requirement for the minor. (2) MIS minor should include a concentration in all IFMG courses. As a result, QBUS courses will not be counted towards the minor.		

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Department of Marketing

Chairperson: Varinder M. Sharma
Faculty: Batra, Bebko, Bhagat, Garg, Krishnan, Sciulli, Taiani
Professor emeritus: Weiers

Website: www.iup.edu/marketing

Bachelor of Science–Marketing Minor–Marketing

The Bachelor of Science degree with a major 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, advertising, distribution and logistics, customer relationship management, marketing research, public relations, marketing for nonprofit organizations, e-commerce, and international marketing. The program focuses on integrating technical knowledge in all areas of marketing with analytical and communication skills to prepare students for the challenges of the global competition in the twenty-first century.

Bachelor of Science–Marketing (*)

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 115 Social Science: ECON 121 , PSYC 101 Liberal Studies Electives: 9cr, BTED/COSC/IFMG 101 , ECON 122 , MATH 214 , no courses with MKTG prefix			55
College: Business Administration Core			33
Required Courses:			
ACCT 201	Accounting Principles I	3cr	
ACCT 202	Accounting Principles II	3cr	
BLAW 235	Legal Environment of Business	3cr	
BTST 321	Business and Interpersonal Communications	3cr	
FIN 310	Fundamentals of Finance	3cr	
IFMG 300	Information Systems: Theory and Practice	3cr	
MGMT 310	Principles of Management	3cr	
MGMT 330	Production and Operations Management	3cr	
MGMT495	Business Policy	3cr	
MKTG 320	Principles of Marketing	3cr	
QBUS 215	Business Statistics	3cr	
Major: Marketing			
Required Courses:			12
MKTG 321	Consumer Behavior	3cr	
MKTG 420	Marketing Management	3cr	

MKTG 421	Marketing Research	3cr	
MKTG 422	Seminar in Marketing	3cr	
Controlled Electives:			15
Five courses from the following: MGMT/MKTG 350 , MKTG 430 , 431 , 432 , 433 , 434 , 435 , 436 , 437 , 438 , 439 , 440 , 441 , 481 (3cr max), 482 (3cr max), 493 (3cr max), a maximum of two (6cr) senior-level non-MKTG prefix courses from complementary areas (such as ACCT , COMM , ECON , GEOG , JRNL , IFMG , MATH , MGMT , PSYC , etc.) to meet individual student program and career preparation needs (with advisor permission)		15cr	
Free Electives: (Maximum of 5cr in nonbusiness courses)			5
Total Degree Requirements:			120
(*) If the student graduates with no more than a maximum of 120cr, no more than 50 percent, or 60cr, can be business-related courses. BTED/COSC/IFMG 101 , QBUS 215 , and all ECON courses are considered nonbusiness.			

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Minor–Marketing

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

Required Courses:			
MKTG 320	Principles of Marketing	3cr	
MKTG 321	Consumer Behavior	3cr	
MKTG 420	Marketing Management	3cr	
Two additional MKTG courses		6cr	

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Department of Technology Support and Training

Chairperson: Linda F. Szul

Faculty: Ali, McPherson, Mensch, Moore, Wilkie, Willis, Woodland

Professors emeriti: Beaumont, Bianco, Brandenburg, Mahan, Moreau, Morris, Polesky, Rowell, Sheeder, Steigmann, Woomer

Website: www.iup.edu/technologysupport

Business Technology Support Major–Bachelor of Science

- Business Technology Support Program Requirements
- Business Technology Support Minor

Business Education Major–Bachelor of Science in Education

- Business Education Program Requirements

Associate of Arts–Business-Computer and Information Technology Specialization

Tech Prep

This department offers the following degrees: Bachelor of Science in Education with a Business Education major, Bachelor of Science with a major in Business Technology Support, and a two-year Associate of Arts degree in Business with a Computer and Information Technology emphasis.

Business Technology Support Major (Bachelor of Science)

The Business Technology Support majors are equipped to be versatile professionals. 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. This 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 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 website managers, technology trainers, help desk administrators, e-business designers, local area network administrators, and documentation/curriculum developers as they relate to enterprise-wide solutions, support services, and technology training.

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

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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 Pennsylvania teacher certification in business, computer, and information technology for grades K-12.

The 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. In 2000, the business education program was honored as the nation's outstanding program by the Association for Career and Technology Education.

The major is intended for those interested in teaching in public elementary, junior/middle, and senior high schools, vocational-technical schools, private business schools, or industry. Students have a choice of the following certification areas: business, computer, and information technology; or marketing education.

A minimum GPA, in accordance with Pennsylvania standards, is required to apply for admission to teacher education, to take major courses in the department, and to student teach. See details of the IUP 3-Step Process in the section "[3-Step Process for Teacher Education](#)" in the College of Education and Educational Technology section of this catalog (also see the Department of Technology Support and Training Student Handbook). The candidates for certification must also complete successfully the core battery and specialization sections of the Praxis examinations.

Before graduation, each business education student must document completion of 500 hours of business work-related experience. This experience 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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Bachelor of Science in Education–Business Education (*) (1)

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 101 or higher Natural Science: Option I recommended Social Science: ECON 121 , PSYC 101 Liberal Studies Electives: 6cr, ECON 122 , MATH , no courses with BTED prefix		51
College:		29
Professional Education Sequence: (2)		
BTED 311	Methods in Business and Information Technology I	3cr
BTED 312	Methods in Business and Information Technology II	3cr
EDEX 301	Education of Students with Disabilities in Inclusive Secondary Settings	2cr
EDSP 102	Educational Psychology	3cr
EDSP 477	Assessment of Student Learning: Design and Interpretation of Educational Measures	3cr
EDUC 242	Pre-student Teaching Clinical Experience I	1cr
EDUC 342	Pre-student Teaching Clinical Experience II	1cr
EDUC 441	Student Teaching	12cr
EDUC 442	School Law	1cr
Major:		40
Required Courses:		
Business Education Core		22cr
ACCT 201	Accounting Principles I	3cr
ACCT 202	Accounting Principles II	3cr
BLAW 235	Legal Environment of Business	3cr
BTED 309	Keyboarding for Educators	1cr
BTST 105	Introduction to Business	3cr
BTST 321	Business and Interpersonal Communications	3cr
IFMG 300	Information Systems: Theory and Practice	3cr
MKTG 320	Principles of Marketing	3cr
Select from one of the following two certification options:		
Business, Computer, and Information Technology Certification:		18cr
BTED/COSC/IFMG 101	Microbased Computer Literacy	3cr
BTED 370	Technology Applications for Education	3cr
BTST 273	Hardware Support Solutions	3cr
BTST 310	Telecommunications	3cr

BTST 383	Microcomputer Software Solutions	3cr
BTST 401	Web Design	3cr
Marketing Education Certification: (3)		18cr
BTED/COSC/IFMG 101	Microbased Computer Literacy	3cr
DEDU 413	Methods and Evaluation in Marketing Education	3cr
MKTG 433	Advertising	3cr
MKTG 435	Professional Selling and Sales Management	3cr
MKTG 436	Retail Management	3cr
MKTG XXX	Marketing Elective (advisor approved)	3cr
(#) Total Degree Requirements:		120
<p>(*) See requirements leading to teacher certification, titled "3-Step Process for Teacher Education," in the College of Education and Educational Technology section of this catalog.</p> <p>(1) According to Pennsylvania Commonwealth guidelines, students must be certified in K-12 and not in separate areas. An exception is Marketing Education.</p> <p>(2) Students electing for Marketing Education certification are not required to take BTED 312.</p> <p>(3) Students can transfer credit from another regionally accredited institution.</p> <p>(#) See advisory paragraph "Timely Completion of Degree Requirements" in the section on Requirements for Graduation.</p>		

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Bachelor of Science–Business Technology Support

Liberal Studies: As outlined in Liberal Studies section with the following specifications:		55
Mathematics: MATH 115		
Social Science: ECON 121 , PSYC 101		
Liberal Studies Electives: 9cr, BTED/COSC/IFMG 101 , ECON 122 , MATH 214 , no courses with BTST prefix		
College: Business Administration Core		33
Required Courses:		
ACCT 201	Accounting Principles I	3cr
ACCT 202	Accounting Principles II	3cr
BLAW 235	Legal Environment of Business	3cr
BTST 321	Business and Interpersonal Communications	3cr
FIN 310	Fundamentals of Finance	3cr
IFMG 300	Information Systems: Theory and Practice	3cr
MGMT 310	Principles of Management	3cr
MGMT 330	Production and Operations Management	3cr
MGMT495	Business Policy	3cr
MKTG 320	Principles of Marketing	3cr
QBUS 215	Business Statistics	3cr
Major:		30
Required Courses:		
BTST 273	Hardware Support Solutions	3cr
BTST 310	Telecommunications	3cr
BTST 311	Training Methods in Business and Information Technology Support	3cr
BTST 383	Microcomputer Software Solutions	3cr
BTST 411	Technology Support Development	3cr
BTST 413	Enterprise Technology Support	3cr
BTST 480	Seminar in Business Technology Support	3cr
COSC/IFMG 352	LAN Design and Installation	3cr
Controlled Electives: Two courses from the following:		6cr
BTED 201	Internet and Multimedia	3cr

BTST 401	Web Design	3cr
BTST 402	Website Development and Administration	3cr
BTST 493	Internship	3cr
COSC 110	Problem Solving and Structured Programming	3cr
COSC 304	Interactive Internet Programming with Java	3cr
Free Electives: (1)		2
Total Degree Requirements:		120
(1) Business Technology and Support majors are required to take a minimum of 50 percent of their degree requirements—i.e., a minimum of 60cr—in nonbusiness coursework. ECON 121 and 122 will be considered “nonbusiness” for purposes of this calculation.		

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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.

Associate of Arts Degree

Offering specialization in computer and information technology (CIT), the Associate of Arts degree with a major 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 CIT.
2. To enable the student to enter CIT 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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Associate of Arts–Business-Computer and Information Technology Specialization

Liberal Studies: As follows: English: ENGL 101 , 202 Fine Arts: 3cr Health and Wellness: 3cr Humanities: HIST 195 Mathematics: MATH 115 Natural Science: 4cr Social Science: PSYC 101 Liberal Studies Electives: 6cr, BTED/COSC/IFMG 101 , ECON 122		33
Major: Business (Associate) Core		30
Required Courses:		
ACCT 201	Accounting Principles I	3cr
ACCT 202	Accounting Principles II	3cr
BLAW 235	Legal Environment of Business	3cr
BTED 293	Practicum: Computer and Information Technology (CIT) <i>or</i> advisor-approved elective	3cr
BTST 105	Introduction to Business	3cr
BTED 273	Hardware Support Solutions	3cr
BTST 310	Telecommunications	3cr
BTST 311	Training Methods in Business and Information Technology Support	3cr
BTST 321	Business and Interpersonal Communications	3cr

BTST 383	Microcomputer Software Solutions	3cr	
Total Degree Requirements:			63

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Minor–Business Technology Support

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

Required Courses:			
BTST 273	Hardware Support Solutions	3cr	
BTST 310	Telecommunications	3cr	
BTST 383	Microcomputer Software Solutions	3cr	
Three course from the following:			
BTST 311	Training Methods in Business and Information Technology Support	3cr	
BTST 401	Web Design	3cr	
BTST 402	Website Development and Administration	3cr	
BTST 411	Technology Support Development	3cr	
BTST 413	Enterprise Technology Support	3cr	

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Accounting (ACCT)

Department of Accounting
Eberly College of Business and Information Technology

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

ACCT 200 Foundations of Accounting	ACCT 421 Federal Tax I
ACCT 201 Accounting Principles I	ACCT 422 Federal Tax II
ACCT 202 Accounting Principles II	ACCT 431 Auditing
ACCT 281 Special Topics	ACCT 432 Forensic and Internal Auditing
ACCT 299 Cooperative Education I	ACCT 441 Accounting for Government and Nonprofit Organizations
ACCT 300 Managerial Accounting	ACCT 451 Seminar in Accounting Standards
ACCT 303 Financial System Analysis	ACCT 461 Accounting Systems
ACCT 304 Intermediate Accounting I	ACCT 471 International Accounting
ACCT 305 Intermediate Accounting II	ACCT 481 Special Topics
ACCT 311 Cost Accounting	ACCT 482 Independent Study
ACCT 399 Cooperative Education II	ACCT 488 Internship in Accounting (Industrial and Government)
ACCT 401 Advanced Accounting	ACCT 493 Internship in Accounting (Public)
ACCT 412 Advanced Cost Accounting	

Note: Except for Accounting, Business Education, and nonbusiness majors who have met the required prerequisites, students scheduling 300 and 400 courses are expected to have achieved junior standing as described in the Eberly College of Business and Information Technology Academic Policies.

ACCT 200 Foundations of Accounting

3c-01-3cr

Provides a framework in which nonbusiness majors can see how accounting relates to and reports on business activities. Introduces the basic financial accounting concepts, principles, and practices applied to the preparation and interpretation of the major financial statements. Takes a business process approach to the information requirements of external decision makers.

ACCT 201 Accounting Principles I

3c-01-3cr

Prerequisite: Sophomore status (except for Accounting majors)

Introduces the basic financial accounting concepts, principles, and practices applied to the preparation and interpretation of the major financial statements. Includes complete coverage of the accounting cycle which is designed to satisfy the information requirements of external decision makers. Topics covered are asset valuation, liability measurement, income determination, and equity activities. Integrated throughout is a discussion of ethical issues and considerations.

ACCT 202 Accounting Principles II

3c-01-3cr

Prerequisite: [ACCT 201](#)

An introduction to traditional managerial accounting concepts and procedures utilized in the organization and processing of accounting information for management decision-making purposes. Topics include managerial accounting and the business environment, cost terms and concepts, cost systems, cost behavior, and cost-volume-profit analysis. Also covers the master budget, standard costing and variance analysis, performance

evaluation, responsibility accounting, relevant cost analysis, and decision making.

ACCT 281 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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.

ACCT 299 Cooperative Education I

0c-0l-2cr

Prerequisites: Completion of 55cr with a minimum 2.0 GPA including a grade of C or better in [ACCT 201](#), [ACCT 202](#), and [IFMG 241](#), and approval of the cooperative advisor

The initial experience in a program designed to combine classroom theory with practical application through job-related 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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ACCT 300 Managerial Accounting

3c-0l-3cr

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 303 Financial System Analysis

3c-0l-3cr

Prerequisite: Grade of C or better in [ACCT 202](#)

Focuses on preparation and analysis of financial information for business performance and financial condition decisions. Financial accounting software is integrated throughout the course to demonstrate financial accounting system design. Basic accounting standards, concepts, and current issues underlying financial reporting are reviewed.

ACCT 304 Intermediate Accounting I

3c-0l-3cr

Prerequisite: Grade of C or better in [ACCT 303](#)

Primarily focuses on financial reporting for asset wealth typically found in business environments. Coverage includes recognition and measurement of such assets as cash, receivables, investments, inventories, plant assets, and intangible assets. Present value concepts in financial reporting are also emphasized.

ACCT 305 Intermediate Accounting II

3c-0l-3cr

Prerequisite: Grade of C or better in [ACCT 304](#)

Concentrates on financial reporting of creditor and investor claims on business assets in the form of liabilities and equity. Specialized financial reporting topics such as earnings per share, stock options, income tax, pension, and lease accounting are also covered.

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ACCT 311 Cost Accounting

3c-0l-3cr

Prerequisite: Grade of C or better in [ACCT 202](#)

Studies the aggregation and use of financial information for internal management decision-making. Discussions concentrate on cost management system design, cost estimation methods for budget preparation and achievement, cost accumulation methods for manufacturing and service organizations, inventory control procedures, transfer pricing administration, and managerial performance evaluation techniques.

ACCT 399 Cooperative Education II

0c-0l-3cr

Prerequisites: [ACCT 299](#), completion of 85cr with a cumulative 2.0 GPA, a 2.3 GPA in [ACCT 304](#), [305](#), and [311](#) with a grade of C or better in each course, and approval of the cooperative advisor

The subsequent course in cooperative education combines classroom theory with practical application through job-related 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.

ACCT 401 Advanced Accounting

3c-01-3cr

Prerequisite: [ACCT 305](#)

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.

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ACCT 412 Advanced Cost Accounting

3c-01-3cr

Prerequisite: Grade of 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.

ACCT 421 Federal Tax I

3c-01-3cr

Prerequisite: Grade of C or better in [ACCT 202](#)

Introduces the fundamental concepts of federal taxation, with special emphasis on individuals. Creates an awareness and recognition of the tax consequences involved in financial decision-making, with special emphasis on use of professional tax software and Internet resources. (Offered as ACCT 321 prior to 2005-06)

ACCT 422 Federal Tax II

3c-01-3cr

Prerequisite: [ACCT 421](#)

Introduces the fundamental concepts of federal taxation of corporations, partnerships, estates, and gift transactions. Creates an awareness and recognition of the tax consequences involved in financial decision-making, with special emphasis on use of professional tax software, the Internal Revenue Code and Regulations, and Internet research.

ACCT 431 Auditing

3c-01-3cr

Prerequisite: [ACCT 304](#)

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 432 Forensic and Internal Auditing

3c-01-3cr

Prerequisite: [ACCT 431](#)

Introduces forensic auditing in fraudulent financial reporting and employee theft. Also covers the foundation of internal auditing and operational audits performed by internal auditors.

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ACCT 441 Accounting for Government and Nonprofit Organizations

3c-01-3cr

Prerequisite: [ACCT 305](#)

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-01-3cr

Prerequisite: [ACCT 305](#)

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-0l-3cr

Prerequisites: [ACCT 305](#), [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.

ACCT 471 International Accounting

3c-0l-3cr

Prerequisite: [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, are discussed. International management accounting topics 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 are also reviewed.

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ACCT 481 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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-1-3cr

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.

ACCT 488 Internship in Accounting (Industrial and Government)

6cr

Prerequisites: Consent of department 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)

6cr

Prerequisites: Consent of department 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.

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Business Law (BLAW)

Department of Finance and Legal Studies
Eberly College of Business and Information Technology

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

BLAW 235 Legal Environment of Business
BLAW 281 Special Topics
BLAW 336 Law of Business Organizations
BLAW 337 Consumer Law
BLAW 440 Business Negotiations
BLAW 481 Special Topics
BLAW 482 Independent Study

Note: Except for Accounting, Business Education, and nonbusiness majors who have met the required prerequisites, students scheduling 300 and 400 courses are expected to have achieved junior standing as described in the Eberly College of Business and Information Technology Academic Policies.

BLAW 235 Legal Environment of Business

3c-0l-3cr

Explores the current American legal system by providing students with an introduction to a variety of legal topics important to all individuals and businesses. Topics must include sources of law, the court system and basic procedures, tort law, criminal law, and contracts. Topics may also include legal research and intellectual property. Ethical issues and international law are integrated throughout the course.

BLAW 281 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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-0l-3cr

Prerequisite: [BLAW 235](#)

A study of the law dealing with commercial paper, agency, partnerships, corporations, and bankruptcy.

BLAW 337 Consumer Law

3c-0l-3cr

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

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BLAW 440 Business Negotiations

3c-0l-3cr

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-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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-1-3cr

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 (QBUS)

Department of Management Information Systems and Decision Sciences
Eberly College of Business and Information Technology

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

QBUS 215 Business Statistics	QBUS 401 Forecasting Methods for Business
QBUS 281 Special Topics	QBUS 481 Special Topics
QBUS 380 Introduction to Management Science	QBUS 482 Independent Study

Note:

Except for Accounting, Business Education, and nonbusiness majors who have met the required prerequisites, students scheduling 300 and 400 courses are expected to have achieved junior standing as described in the Eberly College of Business and Information Technology Academic Policies.

QBUS 215 Business Statistics

3c-0l-3cr

Prerequisites: [MATH 115](#), [214](#)

Expands upon the probabilistic concepts developed in [MATH 214](#) to orient the student toward managerial decision making using quantitative methodologies. Topics include classical regression analysis, forecasting, Bayesian decision theory, linear programming, and simulation.

QBUS 281 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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-0l-3cr

Prerequisite: [QBUS 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-0l-3cr

Prerequisite: [QBUS 215](#)

Trains 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-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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-1-3cr

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 (FIN)

Department of Finance and Legal Studies
Eberly College of Business and Information Technology

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

FIN 281 Special Topics	FIN 420 Investment Analysis
FIN 310 Fundamentals of Finance	FIN 422 Seminar in Finance
FIN 315 Financial Analysis Using Electronic Spreadsheets	FIN 424 International Financial Management
FIN 320 Corporate Finance	FIN 425 Financial Derivatives
FIN 324 Principles of Investments	FIN 481 Special Topics
FIN 350 Short-Term Financial Management	FIN 482 Independent Study
FIN 360 Insurance and Risk Management	FIN 493 Finance Internship
FIN 410 Financial Institutions and Markets	

Note: Except for Accounting, Business Education, and nonbusiness majors who have met the required prerequisites, students scheduling 300 and 400 courses are expected to have achieved junior standing as described in the Eberly College of Business and Information Technology Academic Policies.

FIN 281 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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 Fundamentals of Finance

3c-0l-3cr

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 valuation models, financial statement analysis and forecasting, capital budgeting methods, and working capital management. Also includes an introduction to risk and return, capital markets and institutions, and security valuation.

FIN 315 Financial Analysis Using Electronic Spreadsheets

3c-0l-3cr

Prerequisite: [BTED/COSC/IFMG 101](#)

Develops the financial students' computer modeling and analysis skills. Teaches how to utilize current computing resources, electronic spreadsheet, and other computing software to analyze, model, and solve a variety of financial problems. (Offered as FIN 355 prior to 2002-03)

FIN 320 Corporate Finance

3c-0l-3cr

Prerequisites: [FIN 310](#)

The study of corporate financial management and decision-making, its theory, and application. Provides a higher level of study and many of the same topics covered in Fundamentals of Finance, particularly in the area of capital budgeting. Other topics include capital asset pricing models, costs of capital, capital structure, leasing bond refunding, and financial distress.

FIN 324 Principles of Investments

3c-0l-3cr

Prerequisite: [FIN 310](#)

An introduction to securities markets, trading, and valuation. Topics include security types and characteristics, the mechanics of trading, valuation models for fixed-income securities and common stock, mutual fund evaluation, basics of options and futures, and tax-advantaged investments.

FIN 350 Short-Term Financial Management

3c-0l--3cr

Prerequisites: [FIN 310](#), [315](#)

Provides the conceptual framework and analytical techniques for the short-term financial decisions made by the practicing manager as related to the corporate cash and marketable securities, inventory, accounts receivable, accounts payable, and the short-term borrowing and investing activities.

FIN 360 Insurance and Risk Management

3c-0l-3cr

Prerequisites: [FIN 310](#), [315](#)

Covers the nature of risk, the application of the risk management process to business risk management problems, and the essentials of insurance contracts and insurance markets. Appropriate methods of risk control and risk financing are discussed. The primary focus is on accidental losses resulting from situations involving pure risks, although financial risk management techniques for dealing with speculative risks are introduced.

FIN 410 Financial Institutions and Markets

3c-0l-3cr

Prerequisite: [FIN 324](#)

A review of the structure of financial institutions and money and capital markets. Provides the knowledge of the theory and practices of managing financial institutions, with particular emphasis on the management of financial risks.

FIN 420 Investment Analysis

3c-0l-3cr

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-0l-3cr

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-0l-3cr

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.

FIN 425 Financial Derivatives

3c-0l-3cr

Prerequisites: [FIN 320](#), [324](#)

Provides an understanding of how the derivatives markets work, how they are used, and how prices are determined. Includes the common types of derivatives, their characteristics and properties, and trading methods and strategies. Also covers fundamental pricing models based on arbitrage pricing theory, binomial, and Black-Scholes models. (Offered as FIN 385 prior to 2002-03)

FIN 481 Special Topics

var-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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-3cr

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-3-12cr

Prerequisites: [FIN 310](#), [315](#), [324](#), prior approval through advisor, faculty member, department chairperson, and dean, minimum cumulative 2.0 GPA; major 2.5 GPA

Provides practical experience in the finance field to develop knowledge and provide application of theory to actual problems in a nonclassroom situation. Three credits are awarded for at least 120 hours of on-site work, up to 12cr for at least 480 work hours. A maximum of 3cr may be applied toward the finance major area elective requirements. Additional internship credits must be used as business electives only.

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Management (MGMT)

Department of Management
Eberly College of Business and Information Technology

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

MGMT 234 Introduction to Quality Control	MGMT 428 Seminar in Management
MGMT 275 Introduction to Entrepreneurship	MGMT 432 Business and Society
MGMT 281 Special Topics	MGMT 434 Quality Management
MGMT 300 Human Resource Management	MGMT 437 Operations Management System
MGMT 310 Principles of Management	MGMT 438 Seminar in Operations Management
MGMT 311 Human Behavior in Organizations	MGMT 450 Case Studies in Arts Management
MGMT 325 Small Business Management	MGMT 451 International Management
MGMT 330 Production and Operations Management	MGMT 452 Comparative Management
MGMT 350 International Business	MGMT 454 International Competitiveness
MGMT 400 Compensation Management	MGMT 459 Seminar in International Management
MGMT 401 Management Development and Training	MGMT 481 Special Topics in Management
MGMT 402 Seminar in Human Resource Management	MGMT 482 Independent Study
MGMT 403 Small Business Planning	MGMT 492 Small Business/Entrepreneurship Internship
MGMT 405 Organizational Staffing	MGMT 493 Management Internship
MGMT 406 Human Resources Management Research	MGMT 495 Business Policy

Note: Except for Accounting, Business Education, and nonbusiness majors who have met the required prerequisites, students scheduling 300 and 400 courses are expected to have achieved junior standing as described in the Eberly College of Business and Information Technology Academic Policies.

MGMT 234 Introduction to Quality Control

3c-0l-3cr

Prerequisite: Must be enrolled in either the Associate in Applied Science in Electro-Optics or the Associate of Science in Electro-Optics
Introduces the principles, philosophies, and practices of Total Quality Management (TQM) and the techniques of Statistical Quality Control including fundamentals of probability and statistics, control charts for variables and attributes, acceptance sampling, and reliability concepts.

MGMT 275 Introduction to Entrepreneurship

3c-0l-3cr

Prerequisite: Sophomore status

Entrepreneurship is defined, common myths discussed, and basic characteristics of entrepreneurs identified and reviewed. Includes topics such as 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-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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-0l-3cr

Prerequisite: [PSYC 101](#)

Recognizes and evaluates the application of behavioral science approaches in the study of human resource management. Includes recruiting and selection, training, management development, performance evaluation, communications, wage and benefit programs, and management-labor relations.

MGMT 310 Principles of Management

3c-0l-3cr

Provides an in-depth identification and understanding of the relevant theories, concepts, and principles underlying the management function.

MGMT 311 Human Behavior in Organizations

3c-0l-3cr

Prerequisite: [PSYC 101](#)

Focuses on human problems of management. Presents basic ideas and theories from the behavioral sciences as they apply to human behavior in organizations. Emphasizes management solutions to problems resulting from individual-organization interaction.

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MGMT 325 Small Business Management

3c-0l-3cr

Prerequisites: [MGMT 275](#) or junior standing

A survey course emphasizing 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-0l-3cr

Prerequisite: [MATH 115](#), [214](#), junior standing, 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 350 International Business

3c-0l-3cr

Prerequisite: [MGMT 310](#)

Studies 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 400 Compensation Management

3c-0l-3cr

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.

MGMT 401 Management Development and Training

3c-0l-3cr

Prerequisites: [MGMT 300](#), [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.

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MGMT 402 Seminar in Human Resource Management

3c-0l-3cr

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-0l-3cr

Prerequisites: [ACCT 300](#), [BTED/COSC/IFMG 101](#), [MGMT 325](#)

Integrates the content of much of the business core and relates it to the business planning for small businesses and entrepreneurial efforts. Introduces the concepts which support the development of an effective business plan.

MGMT 405 Organizational Staffing

3c-0l-3cr

Prerequisites: [MATH 214](#), [MGMT 300](#)

Focuses on the theoretical, technical, administrative, and legal issues involved in the recruitment, selection, placement, and promotion of individuals by organizations. Includes 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. (Offered as MGMT 305 prior to 2005-06)

MGMT 406 Human Resources Management Research

3c-0l-3cr

Prerequisites: [MGMT 300](#), [QBUS 215](#)

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-0l-3cr

Prerequisite: [MGMT 310](#)

An integrative course in management. Considers current literature in the field and contemporary issues in management using case studies.

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MGMT 432 Business and Society

3c-0l-3cr

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 [MKTG 432](#); may not be taken for duplicate credit)

MGMT 434 Quality Management

3c-0l-3cr

Prerequisite: [MATH 214](#)

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 any organization. (Offered as MGMT 334 prior to 2005-06)

MGMT 437 Operations Management System

3c-0l-3cr

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-0l-3cr

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 a comprehensive knowledge of the theories, current practices, and trends in several topical areas of operations management. Students learn to present their findings and analyses in a professionally written format.

MGMT 450 Case Studies in Arts Management

3c-01-3cr

Prerequisites: Minimum of 60cr, [MKTG 311](#) or [320](#)

A capstone case analysis course to provide practice in applying business theories to the solution of arts management problems. Utilizing the latest management theories, looks at the practical problems of applying business principles to arts-related businesses and organizations. Through case study analysis, focuses on the everyday problems that managers face and helps students discover solutions.

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MGMT 451 International Management

3c-01-3cr

Prerequisite: [MGMT 310](#)

Provides a general foundation on managing multinational corporations (MNCs). Examines the macro- and 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. (Offered as MGMT 351 prior to 2005-06)

MGMT 452 Comparative Management

3c-01-3cr

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-31-3cr

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.

MGMT 459 Seminar in International Management

3c-01-3cr

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-1-3cr

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-3cr

Prerequisite: Prior approval through advisor, 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 based on academic appropriateness and availability of resources.

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MGMT 492 Small Business/Entrepreneurship Internship

var-3-12cr

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 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-3-12cr

Practical experience to develop knowledge and skills in the application of theory to actual problems in a nonclassroom setting. A maximum of 3cr 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

MGMT 495 Business Policy

3c-01-3cr

Prerequisites: Completion of all Business Core requirements or permission; graduating seniors

A capstone case analysis course designed to give 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 a general management viewpoint that integrates the various functions of the organization.

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Marketing (MKTG)

Department of Marketing
Eberly College of Business and Information Technology

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

MKTG 311 Arts Marketing	MKTG 434 Marketing Logistics
MKTG 320 Principles of Marketing	MKTG 435 Professional Selling and Sales Management
MKTG 321 Consumer Behavior	MKTG 436 Retail Management
MKTG 350 International Business	MKTG 437 Services Marketing
MKTG 351 Self-Marketing	MKTG 438 Relationship Marketing
MKTG 420 Marketing Management	MKTG 439 Internet Marketing
MKTG 421 Marketing Research	MKTG 440 Direct Marketing
MKTG 422 Seminar in Marketing	MKTG 441 Export Marketing
MKTG 430 International Marketing	MKTG 442 Social Cause Marketing for Nonprofit Organizations
MKTG 431 Business-to-Business Marketing	MKTG 481 Special Topics
MKTG 432 Business and Society	MKTG 482 Independent Study
MKTG 433 Advertising	MKTG 493 Marketing Internship

Note: Except for Accounting, Business Education, and nonbusiness majors who have met the required prerequisites, students scheduling 300 and 400 courses are expected to have achieved junior standing as described in the Eberly College of Business and Information Technology Academic Policies.

MKTG 311 Arts Marketing

3c-0l-3cr

Prerequisites: Junior standing; for nonbusiness majors only

An introduction to modern marketing concepts and applications as they relate to building, maintaining, and developing audiences and clients for performing and visual arts organizations, written arts, and arts market entrepreneurs. Topics include audience/client marketing research and segmentation, public and media-relations strategies, sales and communication functions, pricing issues, Internet-based marketing strategies, database-relationship marketing, and fundraising. Students who have completed or are required to take [MKTG 320](#) should not register for this course.

MKTG 320 Principles of Marketing

3c-0l-3cr

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-0l-3cr

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-0l-3cr

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-1cr

Prerequisite: Junior standing (as per credits earned)

Focuses 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.

MKTG 420 Marketing Management

3c-0l-3cr

Prerequisites: [MKTG 320](#) and [321](#)

An analysis of marketing and operational problems and policies involved in planning, organizing, coordinating, and controlling a total marketing program.

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MKTG 421 Marketing Research

3c-0l-3cr

Prerequisites: [MKTG 320](#) and [MATH 214](#)

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-0l-3cr

Prerequisites: [MKTG 420](#) and [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.

MKTG 430 International Marketing

3c-0l-3cr

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 Business-to-Business Marketing

3c-0l-3cr

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-0l-3cr

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)

MKTG 433 Advertising

3c-0l-3cr

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.

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MKTG 434 Marketing Logistics

3c-0l-3cr

Prerequisites: Junior/senior standing, [MKTG 320](#) and [MGMT 330](#)

Focuses on planning, organizing, and controlling the marketing logistics function. In addition to the acquisition and application of management science methods, students 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-0l-3cr

Prerequisite: [MKTG 320](#)

Introduces 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-0l-3cr

Prerequisite: [MKTG 320](#)

Introduces all facets of retailing including the history of retailing, retail theories, and decision-making in retailing framework.

MKTG 437 Services Marketing

3c-0l-3cr

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. Emphasizes characteristics of services and their marketing implications and formulation and implementation of marketing strategies for service firms.

MKTG 438 Relationship Marketing

3c-0l-3cr

Prerequisite: [MKTG 320](#)

Relationship marketing entails performing marketing activities directed toward establishing, developing, and maintaining successful long-term relational exchanges. Covers theory and practice of relationship marketing.

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MKTG 439 Internet Marketing

3c-0l-3cr

Prerequisite: [MKTG 320](#)

Presents a strategic framework for developing marketing strategies on the Internet. Extends the marketing mix framework to e-commerce using current theories and applications in on-line product, on-line pricing, web-based marketing communication, and distribution strategies. Other topics include marketing research on the Internet, electronic retailing, Internet-based customer relationship management, and legal-ethical dimensions of e-marketing. Students use Internet-based on-line marketing cases.

MKTG 440 Direct Marketing

3c-0l-3cr

Prerequisite: [MKTG 320](#)

Introduces the role and nature of direct marketing, including its current theory and practice. Topics include current state and growth of direct marketing, prospecting strategies, development of hot lists, timeless strategies, and lifetime value analysis. Strategies, implementation, and public policy issues are discussed.

MKTG 441 Export Marketing

3c-0l-3cr

Prerequisite: [MKTG 320](#)

Students conduct an export feasibility analysis of a consumer/industrial item for a foreign market. Focus is on strategic and procedural aspects of export marketing.

MKTG 442 Social Cause Marketing for Nonprofit Organizations

3c-0l-3cr

Prerequisite: [MKTG 320](#) or instructor permission

Developed to prepare managers of non-profit organizations and those whose mission is to plan and implement strategies for social change in

society. Topics and activities will focus on strategic and tactical marketing approaches, planning and organizing for effective control of market performance of nonprofit organizations and programs.

MKTG 481 Special Topics

var-1-3cr

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 department chairperson) or free electives in a student's program. Special topics numbered 481 are primarily for upper-level undergraduate students.

MKTG 482 Independent Study

var-3cr

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-3-12cr

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 3cr 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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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Business Technology Support and Training (BTST)

Department of Technology Support and Training
Eberly College of Business and Information Technology

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

BTST 105 Introduction to Business	BTST 383 Microcomputer Software Solutions
BTST 221 Business Technical Writing	BTST 401 Web Design
BTST 231 Speech Communication for Professionals	BTST 402 Website Development and Administration
BTST 273 Hardware Support Solutions	BTST 411 Technology Support Development
BTST 281 Special Topics	BTST 413 Enterprise Technology Support
BTST 310 Telecommunications	BTST 480 Seminar in Business Technology Support
BTST 311 Training Methods in Business and Information Technology Support	BTST 481 Special Topics
BTST 321 Business and Interpersonal Communications	BTST 482 Independent Study
BTST 342 Intercultural Business Communication	BTST 493 Internship

Note: Except for Accounting, Business Education, and nonbusiness majors who have met the required prerequisites, students scheduling 300 and 400 courses are expected to have achieved junior standing as described in the Eberly College of Business and Information Technology Academic Policies.

BTST 105 Introduction to Business

3c-0l-3cr

An introduction to business, emphasizing critical issues impacting the business world, such as globalization, technology, ethics, and diversity. Provides an overview of the various functional areas of business and provides an understanding of the need for integration of those functional areas for success in business. Stresses experiential learning, develops team building skills, strengthens oral and written communication skills, and provides for personal interaction with university faculty. Provides an introduction to career opportunities and curriculum choices in business.

(Offered as BTST 101 prior to 2004-05)

BTST 221 Business Technical Writing

3c-0l-3cr

Prerequisite: [ENGL 101](#)

The application of business and technical writing styles, letters, memos, reports, procedures, and manuals are some areas of concern. Emphasizes clear, concise writing style. (May not be used as a substitute for [BTST 321](#))

BTST 231 Speech Communication for Professionals

1c-0l-1cr

A study of 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. Builds professional presentation skills as course assignments to develop, critique, and deliver professional presentations are fulfilled.

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BTST 273 Hardware Support Solutions

3c-01-3cr

Prerequisite: [BTED/COSC/IFMG 101](#)

Emphasizes systems hardware, especially the microcomputer. Concepts and design principles common to all microprocessors are studied. Auxiliary hardware such as printers, modems, scanners, and laser technology will be included. Basic network technology concepts and peer-to-peer network configuration, maintenance, and troubleshooting are also included. (Offered as BTST 313 Office Systems Technologies prior to 2003-04)

BTST 281 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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.

BTST 310 Telecommunications

3c-01-3cr

Prerequisite: [BTED/COSC/IFMG 101](#)

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 are addressed.

BTST 311 Training Methods in Business and Information Technology Support

3c-01-3cr

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 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.

BTST 321 Business and Interpersonal Communications

3c-01-3cr

Prerequisites: [ENGL 101](#), [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. Emphasizes building effective interpersonal relations in a business environment.

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BTST 342 Intercultural Business Communication

3c-01-3cr

Prerequisite: Junior standing

An in-depth study and theoretical understanding of intercultural business communication, including international, national, ethnic, racial, and socioeconomic cultures. Explores practices, trends, and difficulties of people primarily identified with one culture's attempting to interact with people of another culture through speaking, listening, writing, and nonverbal means. Problems of intercultural communication situations for business are pinpointed, elements of the problems clarified, and guidelines projected for problem mitigation.

BTST 383 Microcomputer Software Solutions

3c-01-3cr

Prerequisite: [BTST 273](#) or instructor permission

An in-depth study of all the salient functions and features of selecting, installing, configuring, and maintaining the microcomputer operating systems and resolving conflicts. Also develops skills for installing, customizing, and optimizing a variety of application, multimedia, Internet, and utility software programs, as well as configuring, managing, and troubleshooting PC security issues. (Offered as BTST 283 prior to 2003-04)

BTST 401 Web Design

3c-01-3cr

Focuses on web design research and experimentation with basic to leading-edge design techniques enabling the creation of user-focused websites. Emphasizes web design techniques resulting in fast-loading and well-placed graphics, cohesive color and typography across platforms and browsers, clear navigational interface, and appropriate use of sound, animation, and video. A variety of software production programs are introduced and used.

BTST 402 Website Development and Administration

3c-01-3cr

Guides through a hands-on, step-by-step process of creating a well-designed website for an enterprise. Teaches 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.

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BTST 411 Technology Support Development

3c-01-3cr

Prerequisites: [BTST 273](#), [383](#), and [COSC/IFMG 352](#)

Corequisite: [BTST 413](#)

Includes dimensions of study relative to a technical support center–facilities management, workplace ergonomics, end-user needs assessment, and end-user support. Incorporates practical applications for building customer care, technical, and reporting skills through the development of various projects, including needs analysis, computer documentation, ergonomic facility design, and project management.

BTST 413 Enterprise Technology Support

3c-01-3cr

Prerequisites: [BTST 273](#), [383](#), [COSC/IFMG 352](#) or instructor permission

Corequisite: [BTST 411](#)

Provides a comprehensive and practical knowledge of enterprisewide technology. Topics include knowledge management, remote user support, teleconferencing, and network management and enhancement. Hands-on experience working with software, customizing user environments, managing technology security, and enhancing and troubleshooting the computing environment.

BTST 480 Seminar in Business Technology Support

3c-01-3cr

Prerequisite: Graduating seniors only or instructor permission

Emphasizes solving of office management problems. Provides an opportunity to integrate and apply the skills and knowledge previously gained in the Business Technology Support major.

BTST 481 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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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BTST 482 Independent Study

var-1-3cr

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.

BTST 493 Internship

var-3-6cr

Prerequisites: Approval of internship coordinator, chairperson, and dean and 2.75 cumulative GPA and 3.0 GPA in Business

A supervised office experience program with an approved agency (business, industry, and government).

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Department of Adult and Community Education

Chairperson: Gary J. Dean
Faculty: Ritchey
**Professors
emeritus:** Ferro

Website: www.iup.edu/ace

The department is a graduate department offering two tracks leading to the Master of Arts degree: Adult and Community Education and Adult Education and Communications Technology.

The Master of Arts degree in 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 degree in Adult Education and Communications Technology, administered jointly 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 track to apply for PDE certification as an Instructional Technology Specialist.

Refer to the [Graduate School Catalog](#) for more information.



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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Department of Communications Media

Chairperson: Kurt P. Dudt

Faculty: Ausel, Handler, Kanyarusoke, Kornfeld, Lamberski, Lauber, Leidman-Golub, Lenze, Partridge, Start, Wilson

Professors emeriti: MacIsaac, Murray, Young

Website: www.iup.edu/cm

Bachelor of Science–Communications Media

Minor–Communications Media

Minor–Educational Technology

The department offers a Bachelor of Science degree with a major in Communications Media and two minors, one in Communications Media and one in Educational Technology. The minor in Communications Media is an 18-credit program designed to complement any major. The minor in Educational Technology is a 24-credit program designed for students who are completing a teaching degree. The department also serves preservice teachers and other students who are required to complete [COMM 103](#).

The philosophy of the Communications Media Department is to prepare generalists in the area of communications. 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 Communications 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.

Bachelor of Science–Communications Media

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: 3cr Social Science: PSYC 101 Liberal Studies Electives: 6cr, BTED/COSC/IFMG 101 (to be taken in the freshman year), no courses with COMM prefix	51
Major:	42
Required Courses:	
COMM 101 Communications Media in American Society	3cr
COMM 150 Aesthetics and Theory of Communications Media	3cr
COMM 395 Career Planning in Communications Media	1cr
COMM 475 Senior Portfolio Presentation	1cr
COMM 493 Internship (summer only)	6, 9, or 12cr

Minimum of one course from the following:		
COMM 302	Research in Communications Media	3cr
COMM 303	Scriptwriting	3cr
COMM 330	Instructional Design for Training and Development	3cr
COMM 403	Broadcast Newswriting	3cr
Minimum of two production courses from the following:		
COMM 240	Communications Graphics	3cr
COMM 249	Basic Audio Recording Techniques	3cr
COMM 251	Television Production	3cr
COMM 271	Beginning Photography	3cr
COMM 340	Advanced Communication Graphics	3cr
COMM 349	Radio Production	3cr
COMM 351	Advanced Video Production	3cr
COMM 371	Photography II: The Print	3cr
COMM 405	Process of Digital Game Development	3cr
COMM 408	Media Field Studies	3cr
COMM 440	Multimedia Production	3cr
COMM 447	Animation	3cr
COMM 449	Advanced Audio Recording Techniques	3cr
COMM 451	Broadcast News Process	3cr
COMM 471	Electronic Imaging	3cr
COMM 474	Documentary Photography	3cr
Controlled Electives: Other COMM elective courses including courses from the above lists not taken as part of those requirements.		13-19cr
Other Requirements: Courses outside Communications Media that augment the student's major course of study (advisor approval)		21
Free Electives:		6
(#) Total Degree Requirements:		120
(#) A maximum of 12cr of COMM 493 can be applied to requirements for graduation.		

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Minor–Communications Media

18

Required Courses:		
COMM 101	Communications Media in American Society	3cr
COMM XXX	Electives in Communication Media	15cr

Minor–Educational Technology

24

Required Courses:		
BTED/COSC/ IFMG 101	Microbased Computer Literacy	3cr
COMM 101	Communications Media in American Society	3cr
COMM 460	Emerging Trends in Communications Technology	3cr
COMM XXX	Electives in Communications Media	15cr

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Department of Counseling

Chairperson: Claire J. Dandeneau
Faculty: Desmond, Guth, L'Amoreaux, Marshak, McCarthy, Moore, Utay, Witchel
Professor emeritus: Worzbyt

Website: www.iup.edu/ce

The Department of Counseling is a graduate department which offers two master's degree programs. The Master of Arts degree in Community Counseling is designed to prepare students to work in a variety of settings including mental health centers, drug and alcohol treatment programs, specialized community agencies, vocational education or rehabilitation programs, correctional institutions, health care setting, social services, business and industry. This program is also offered at the IUP Monroeville Graduate and Professional Center in Monroeville.

The Master of Education degree in School Counseling Certification is designed to prepare Elementary and Secondary Counselors to qualify for institutional and commonwealth certification. The 48-credit competency-based program includes a series of counseling skills courses to individual and group counseling and a field experience under the supervision of a certified school counselor. Those students already possessing a master's degree may apply to the counseling program for "Certification Only" status.

Refer to the [Graduate School Catalog](#) for further details.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Department of Educational and School Psychology

Interim Chairperson: Edward M. Levinson
Faculty: Barker, Black, Briscoe, Damiani, Kovaleski, Rafoth, Rattan, Staszkievicz
Professors emeriti: Hoellein, Quirk, Yanuzzi

Website: www.iup.edu/edsp

Minor in Educational Psychology

Undergraduate students may minor in Educational Psychology by making application to the advisor of the minor program. Fifteen credits of Educational Psychology courses are required for the minor. Students complete [EDSP 102](#), [373](#), [376](#), [378](#), and [477](#).

Graduate Programs

Programs leading to the M.Ed. degree in Educational Psychology as well as a post-master's certification and a Doctor of Education in School Psychology are described in the [Graduate School Catalog](#).

College of Education and Education Technology Honors Track

This track enables students to participate in advanced study in the areas of learning and instructional theory, motivation to learn, assessment of student learning, classroom management, and the psychology of adolescent education. The track utilizes coursework currently in the Educational Psychology Minor, which will now carry honors courses designation, and the creation of a new honors internship, [EDSP 493](#). Students may complete the minor in Education Psychology while in the honors track if desired.

The honors track is encouraged for exceptional students in the field of education. Honors coursework is recorded on university transcripts and students completing the Education Honors Track will be recognized at departmental commencement ceremonies.

Eligibility and Requirements

The Honors Track is open by permission to Education majors with at minimum 3.25 GPA in total university coursework and a completed application. To apply, an application should be filed with the chair of the Educational and School Psychology Department. Students complete [EDSP 102/H/](#) and [477/H/](#); two of the following electives: [EDSP 373/H/](#), [376/H/](#), or [378/H/](#); and [EDSP 493/H/](#) for a total of 13 credits. Students must earn at least a "B" in each course completed for the track to proceed and maintain a 3.25 cumulative GPA. To determine how Honors Track courses will be integrated into existing requirements for their major, students should consult their advisors.

Indiana University of Pennsylvania

2006-07 Undergraduate Catalog
Indiana, Pennsylvania 15705

Department of Foundations of Education

Faculty: Eugene F. Thibadeau
Professor emeritus: Chu

Website: www.iup.edu/fe

The Department of Foundations of Education provides elective coursework in 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.

Refer to the [Graduate School Catalog](#) for details.



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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Department of Professional Studies in Education

Chairperson: Jennifer V. Rotigel

Faculty: Bieger, Corbett, Creany, Doverspike, Fello, Fennimore, Hannibal, Helterbran, Jalongo, Kaufman, Kerry-Moran, Kupetz, Millward, L. Nicholson, W. Nicholson, Paquette, Rieg, Stamp, Tidwell, Mark Twiest, Meghan Twiest, L. Vold, Yan

Professors emeriti: Dorsey, Elliott, Gerlach, Glott, King, Lott, McFeely, Mott, Reilly, Rizzo, E. Vold, Walthour

Website: www.iup.edu/pse

Elementary Education Program

- Bachelor of Science in Education
- Bachelor of Science in Education/Urban Track

Early Childhood Education/PreK-Grade 6 Program

- Bachelor of Science in Education

Dual Certification–Elementary Education for Majors in:

- Education of Deaf and Hard-of-Hearing Persons
- Education of Exceptional Persons

Foreign Languages and International Studies for Elementary Teaching (FLISET)

Graduate Programs

Elementary Education Program

This program is designed to provide learning experiences to 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 minimum GPA, in accordance with Pennsylvania standards, is required to apply for teacher certification, to take major courses in the department and to student teach.

The **Urban Track** within the Department of Professional Studies and Education prepares students for teaching in urban school districts, especially in low-income communities with high minority enrollments where the need for high-quality teachers is great. Coursework and field experiences emphasize the historical, economic, political, and sociocultural contexts of urban schools and seek to develop within future teachers the skills, knowledge-base, and sensitivities for working with students whose backgrounds and life experiences often differ in significant ways from their own.

Early Childhood Education/PreK-Grade 6 Program

This program is designed to assist students in becoming highly competent and effective teachers of children in Preschool through Grade 6. The program has an emphasis on early childhood education and the teaching of reading. Students in this program will meet the academic requirements for certification in both Early Childhood Education and Elementary Education with an academic concentration in the Teaching of Reading.

This unique cohort program, combining coursework, extensive field experiences, and community involvement, prepares students to be professional educators who are well-qualified to utilize appropriate techniques and strategies to expand children's cognitive, language, social, emotional, and physical development. As all field experiences take place in specific school districts and communities in a collaborative professional development school model, student teaching abroad and the urban elementary education track are not options for students in this major. Twenty hours of service

learning are a requirement of this program and are incorporated into major courses.

Admission to this selective program requires satisfactory completion of an interview in addition to the college requirements for Step 1 in the [3-Step Process for Teacher Education](#). Students interested in this program should enroll in the university as Elementary Education majors. Interviews and candidate screening will be held in the fall and spring. Interview dates and relevant information are available at www.iup.edu/pse/programs. A 3.0 GPA is required to apply for teacher certification, to take major courses in the department, 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 D.Ed. degrees are described in the [Graduate School Catalog](#). Internships and assistantships are available.

Bachelor of Science in Education–Elementary Education (*)

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Fine Arts: THTR 101 Mathematics: MATH 151 Natural Science: SCI 101 , 102 , 103 , and 104 (1) Social Science: GEOG 101 , 102 , or 104 , PSYC 101 Liberal Studies Electives: 6cr, MATH 152 (2), no courses with ELED prefix, not to include CDFR 218		53
College:		24
Preprofessional Education Sequence:		
COMM 103	Digital Instructional Technology	3cr
EDSP 102	Educational Psychology	3cr
Professional Education Sequence:		
EDSP 477	Assessment of Student Learning: Design and Interpretation of Educational Measures	3cr
EDUC 242	Pre-student Teaching Clinical Experience I	1cr
EDUC 342	Pre-student Teaching Clinical Experience II	1cr
EDUC 441	Student Teaching	12cr
EDUC 442	School Law	1cr
Major:		36
Required Courses:		
EDEX 300	Education of Students with Disabilities in Inclusive Elementary Classrooms	2cr
EDUC 499	Multicultural/Multiethnic Education	2cr
ELED 211	Music for the Elementary Grades	2cr
ELED 213	Art for the Elementary Grades	2cr
ELED 215	Child Development	3cr
ELED 221	Children’s Literature	3cr
ELED 222	Reading for the Elementary School	3cr
ELED 257	Pedagogy I	3cr
ELED 312	Teaching of Elementary Science	2cr
ELED 313	Teaching Mathematics in the Elementary School	3cr
ELED 314	Teaching of Health and Physical Education	2cr
ELED 357	Pedagogy II	3cr
ELED 411	Teaching of Social Studies	3cr
ELED 425	Language Arts Across the Curriculum	3cr
Other Requirements: Special electives from a defined discipline (3)		6
Free Electives:		1
Total Degree Requirements:		120

<p>(*) See requirements leading to teacher certification, titled "3-Step Process for Teacher Education," in the College of Education and Educational Technology section of this catalog.</p> <p>(1) This sequence of 10cr fulfills the Liberal Studies natural science requirement.</p> <p>(2) For students who test out of MATH 152, consult your advisor for suggested math courses.</p> <p>(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.</p> <p>* FLISET: see requirements in this catalog.</p> <p>* Mathematics: MATH 317, 420, 456, 457, 458, 459, 471, 483 (math concentration requires 15cr to include MATH 151, 152)</p> <p>* Reading: ECED 220 or 451, EDUC 408, ELED 422, (reading concentration requires 15cr to include ELED 221, 222, 425)</p> <p>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.</p>
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Bachelor of Science in Education–Elementary Education/Urban Track (*)

Liberal Studies: As outlined in Liberal Studies section with the following specifications:		53
Fine Arts: THTR 101		
Mathematics: MATH 151		
Natural Science: SCI 101 , 102 , 103 , and 104 (1)		
Social Science: GEOG 101 , 102 , or 104 , PSYC 101		
Liberal Studies Electives: 6cr, MATH 152 (2), no courses with ELED prefix, not to include CDFR 218		
College:		24
Preprofessional Education Sequence:		
COMM 103	Digital Instructional Technology	3cr
EDSP 102	Educational Psychology	3cr
Professional Education Sequence:		
EDSP 477	Assessment of Student Learning: Design and Interpretation of Educational Measures	3cr
EDUC 242	Pre-student Teaching Clinical Experience I	1cr
EDUC 342	Pre-student Teaching Clinical Experience II	1cr
EDUC 441	Student Teaching (3)	12cr
EDUC 442	School Law	1cr
Major:		36
Required Courses:		
EDEX 300	Education of Students with Disabilities in Inclusive Elementary Classrooms	2cr
EDUC 499	Multicultural/Multiethnic Education	2cr
ELED 211	Music for the Elementary Grades	2cr
ELED 213	Art for the Elementary Grades	2cr
ELED 215	Child Development	3cr
ELED 221	Children’s Literature	3cr
ELED 222	Reading for the Elementary School	3cr
ELED 257	Pedagogy I	3cr
ELED 312	Teaching of Elementary Science	2cr
ELED 313	Teaching Mathematics in the Elementary School	3cr
ELED 314	Teaching of Health and Physical Education	2cr
ELED 357	Pedagogy II	3cr

ELED 411	Teaching of Social Studies	3cr	
ELED 425	Language Arts Across the Curriculum	3cr	
Controlled Requirements:			6
FDED 440	Orientation to Teaching in Urban Centers	3cr	
FDED 441	Field Experiences in Urban Centers	3cr	
Free Electives: (4)			1
Total Degree Requirements:			120
<p>(*) See requirements leading to teacher certification, titled "3-Step Process for Teacher Education," in the College of Education and Educational Technology section of this catalog.</p> <p>(1) This sequence of 10cr fulfills the Liberal Studies Natural Science requirement.</p> <p>(2) For students who test out of MATH 152, consult your advisor for suggested math courses.</p> <p>(3) For Option A, student teaching must take place in a designated urban school. For Option B, student teaching must take place in an urban Professional Development School partner site.</p> <p>(4) Students enrolled in this track may also participate in a Reading or Math concentration according to departmental guidelines. Courses related to those concentrations would require the student to invest additional credits, resulting in a program of more than 120cr. Courses for reading concentration and math concentration are delivered only at IUP main campus, not at the professional development school partner site.</p>			

Bachelor of Science in Education–Early Childhood Education/PreK-Grade 6 (*)

Liberal Studies: As outlined in Liberal Studies section with the following specifications:			53
Mathematics: MATH 151			
Natural Science: SCI 101 , 102 , 103 , and 104			
Social Science: GEOG 101 , 102 , or 104 , PSYC 101			
Liberal Studies Electives: 6cr, must include MATH 152 , no courses with ECED prefix, not to include CDFR 218			
College:			24
Preprofessional Education Sequence:			
COMM 103	Digital Instructional Technology	3cr	
EDSP 102	Educational Psychology	3cr	
Professional Education Sequence:			
EDSP 477	Assessment of Student Learning: Design and Interpretation of Educational Measures	3cr	
EDUC 242	Pre-student Teaching Clinical Experience I	1cr	
EDUC 342	Pre-student Teaching Clinical Experience II	1cr	
EDUC 441	Student Teaching	12cr	
EDUC 442	School Law	1cr	
Major:			43
Required Courses: (1)			
CDFR 426	Techniques of Parent Education	3cr	
ECED 180	Orientation to the ECED/PreK-Grade 6 Program	1cr	
ECED 200	Introduction to Early Childhood Education	3cr	
ECED 220	Children's Literature to Enhance Emergent and Beginning Reading	3cr	
ECED 280	Maximizing Learning	3cr	
ECED 310	Science and Health in the Literacy-based Early Childhood Curriculum	3cr	
ECED 314	Creative Experiences to Enhance Literacy Acquisition	3cr	
ECED 451	Teaching Primary Reading	3cr	
ECED 480	Professional Seminar: Teacher as Researcher and Advocate	1cr	
EDEX 300	Education of Students with Disabilities in Inclusive Elementary Classrooms	2cr	
EDEX 415	Preschool Education for Children with Disabilities	3cr	

EDUC 408	Reading in the Content Areas	3cr
ELED 215	Child Development	3cr
ELED 313	Teaching Mathematics in the Elementary School	3cr
ELED 422	Diagnostic and Remedial Reading	3cr
ELED 425	Language Arts Across the Curriculum	3cr
Total Degree Requirements:		120
(*) See requirements leading to teacher certification, titled " 3-Step Process for Teacher Education ," in the College of Education and Educational Technology section of this catalog.		
(1) A 3.0 cumulative GPA is required to register for major courses.		

Dual Certification

Education of Deaf and Hard-of-Hearing Persons or Education of Exceptional Persons majors may complete academic requirements for certification in Elementary Education by completing the following requirements. 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.

Dual Certification–Elementary Education for Majors in Education of Deaf and Hard-of-Hearing Persons

EDUC 342	Pre-student Teaching Clinical Experience II (ELED)	1cr
EDUC 421	Student Teaching (1)	6cr
ELED 221	Children’s Literature	3cr
ELED 257	Pedagogy I	3cr
ELED 312	Teaching of Elementary Science	2cr
ELED 313	Teaching Mathematics in the Elementary School (2)	3cr
ELED 357	Pedagogy II	3cr
ELED 411	Teaching of Social Studies	3cr
ELED 425	Language Arts Across the Curriculum	3cr
Recommended Elective:		
ELED 351	Creative Activities in the Elementary School	3cr
(1) Students are required to do 6cr of student teaching in the regular elementary classroom in addition to the 12cr required in the EDHL major, or a total of 18cr 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.		

Dual Certification–Elementary Education for Majors in Education of Exceptional Persons

EDUC 342	Pre-student Teaching Clinical Experience II (ELED)	1cr
EDUC 421	Student Teaching (1)	6cr
ELED 221	Children’s Literature	3cr
ELED 257	Pedagogy I	3cr
ELED 312	Teaching of Elementary Science	2cr
ELED 313	Teaching Mathematics in the Elementary School (2)	3cr
ELED 357	Pedagogy II	3cr
ELED 411	Teaching of Social Studies	3cr
ELED 425	Language Arts Across the Curriculum	3cr
Recommended Elective:		
ELED 351	Creative Activities in the Elementary School	3cr
(1) Students are required to do 6cr of student teaching in the regular elementary classroom in addition to the 12cr required in the EDEX major, or a total of 18cr 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.		

Foreign Languages and International Studies for Elementary Teaching (FLISET) (1)

Elementary Education 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 credits in Spanish:

Required Courses: (2)		22
SPAN 201	Intermediate Spanish	4cr
SPAN 220	Intermediate Spanish Conversation and Grammar	3cr
SPAN 230	Intermediate Spanish Composition	3cr
SPAN 290	Spanish for Elementary Teaching	3cr
SPAN 340	Hispanic Civilization Through the Nineteenth Century	3cr
SPAN 350	Advanced Spanish Conversation	3cr
SPAN 390	Teaching of Elementary Content Through the Spanish Language	3cr
Controlled Elective: one course		3
SPAN XXX	Elective (taken abroad)	3cr
Other Requirements:		0-6
GEOG 252 , PLSC 387 , or ANTH 474 as the non-Western course		0cr
Study/internship in Mexico for six to eight weeks the summer following junior year		0-6cr
Student teaching experience in immersion classroom		0cr
(1) Students interested in the program should contact the director of the FLISET Program in the Department of Spanish or the FLISET coordinator in the Department of Professional Studies in Education.		
(2) While the total number of credits 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 31cr.		

Department of Special Education and Clinical Services

Chairperson: Joseph W. Domaracki
Faculty: Baker, Benham, Ferrell, Glor-Sheib, Hutson-Feudale, Jackson, Klein, Lombard,
Nowell, Robertson, D. Stein, K. Stein, Yost
Professors emeriti: M. Bahn, W. Bahn, Fiddler, Morris, C. Reber, Shane, Turton

Website: www.iup.edu/special-ed

A. **Education of Exceptional Persons**

- Bachelor of Science in Education–Education of Exceptional Persons
- [Minor–Education of Exceptional Persons](#)
- Dual Certification–Education of Exceptional Persons for Majors Elementary Education

B. **Speech-Language Pathology and Audiology**

- Bachelor of Science in Education–Speech-Language Pathology and Audiology

C. **Education of Deaf and Hard-of-Hearing Persons**

- Bachelor of Science in Education–Education of Deaf and Hard-of-Hearing Persons
- [Minor–Deaf Studies](#)
- Dual Certification–Education of Deaf and Hard-of-Hearing Persons for Majors in Elementary Education

D. **Disability Services**

- [Bachelor of Science–Disability Services](#)
-

This department offers the Bachelor of Science in Education degree with majors in **Education of Exceptional Persons**, **Education of Deaf and Hard-of-Hearing Persons**, and **Speech-Language Pathology and Audiology**. A Bachelor of Science degree with a major in **Disability Services** is also offered. Each major follows a prescribed sequence of courses.

The following grade policy applies to three undergraduate programs of study in the department: Education of Exceptional Persons, Education of Deaf and Hard-of-Hearing Persons, and Speech-Language Pathology and Audiology. 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 Deaf and Hard-of-Hearing Persons
EDUC 421	Student Teaching
EDUC 441	Student Teaching
RHAB 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: Education of Exceptional Persons, Education of Deaf and Hard-of-Hearing Persons, and Speech-Language Pathology and Audiology. To enroll in a 300- or 400-level course in those programs, a student must have a minimum 3.0 cumulative GPA and must meet the other provisions of the [3-Step Process for Teacher Education](#) and must

either be a departmental major or have permission of the department chair.

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.

Bachelor of Science in Education–Education of Exceptional Persons (*)

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 151 and 152 (1) Social Science: PSYC 101 Natural Science: laboratory science sequence required (SCI 105-106 recommended) Liberal Studies Electives: 0cr		48
College:		
Preprofessional Education Sequence:		24
COMM 103 <i>or</i> EDEX 103	Digital Instructional Technology <i>or</i> Special Education Technology	3cr
EDSP 102	Educational Psychology	3cr
Professional Education Sequence:		
EDSP 477	Assessment of Student Learning: Design and Interpretation of Educational Measures	3cr
EDUC 242	Pre-Student Teaching Clinical Experience I	1cr
EDUC 342	Pre-Student Teaching Clinical Experience II	1cr
EDUC 421	Student Teaching (Mild/Moderate)	6cr
EDUC 441	Student Teaching (Severe/Profound)	6cr
EDUC 442	School Law	1cr
Major:		43
Required Courses:		
EDEX 111	Introduction to Exceptional Persons	3cr
EDEX 112	Typical and Atypical Growth and Development	3cr
EDEX 221	Methods of Teaching Mathematics to Persons with Disabilities	3cr
EDEX 222	Methods of Teaching Reading to Persons with Disabilities	3cr
EDEX 231	Methods of Teaching Content Area Subjects to Persons with Disabilities	3cr
EDEX 321	Methods of Teaching Language Arts to Persons with Disabilities	3cr
EDEX 340	Introduction to Behavior Management in Special Education	3cr
EDEX 416	Education of Persons with Emotional or Behavioral Disorders	3cr
EDEX 417	Education of Persons with Mental Retardation or Developmental Disabilities	3cr
EDEX 418	Education of Persons with Physical or Multiple Disabilities	3cr
EDEX 419	Education of Persons with Brain Injuries or Learning Disabilities	3cr
EDEX 425	Methods and Curriculum (Mild-Moderate Disabilities)	3cr
EDEX 435	Methods and Curriculum (Severe-Profound Disabilities)	3cr
EDEX 440	Ethical and Professional Behavior	1cr
SPLP 254	Classroom Management of Language Disorders	3cr
Free Electives:		5
Total Degree Requirements:		120
(*) See requirements leading to teacher certification, titled " 3-Step Process for Teacher Education ," in the College of Education and Educational Technology section of this catalog.		

(1) An approved Liberal Studies MATH course may substitute for [MATH 152](#).

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Minor–Education of Exceptional Persons

Completion of the minor in Education of Exceptional Persons will prepare students to have a better understanding of the social, emotional, and learning characteristics of individuals with mental retardation, autism, developmental disabilities, learning disabilities, brain injuries, emotional and behavioral disorders, physical disabilities, and multiple disabilities. In addition, students taking this minor will develop a thorough understanding of PL 105-17, Individuals with Disabilities Education Act (IDEA), which addresses the rights of individuals and parents regarding inclusion in the regular classroom, delivery of services in inclusive settings, and transition planning.

The minor is an 18-credit program with 3 required and 15 elective credits. The required credits are met through enrollment in [EDEX 111](#). This course will provide essential information regarding IDEA (PL 105-17) as well as an overview of the field of Special Education, thus allowing the minor candidate to select a more focused area of concentration.

This minor would be of interest to Sociology, Psychology, Child Development and Family Relations, Criminology, and Secondary Education majors who are interested in interacting or working with individuals with disabilities. This minor can also provide a foundation of study for the pursuit of teacher certification in Special Education at the postbaccalaureate or graduate levels. To be accepted into the minor, a student must have a minimum 2.5 cumulative GPA.

Minor—Education of Exceptional Persons

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Required Course:			3
EDEX 111	Introduction to Exceptional Persons	3cr	
Controlled Electives: Five courses from the following:			15
EDEX 112	Typical and Atypical Growth and Development	3cr	
EDEX 340	Introduction to Behavior Management in Special Education	3cr	
EDEX 415	Preschool Education for Children with Disabilities	3cr	
EDEX 416	Education of Persons with Emotional or Behavioral Disorders	3cr	
EDEX 417	Education of Persons with Mental Retardation or Developmental Disabilities	3cr	
EDEX 418	Education of Persons with Physical or Multiple Disabilities	3cr	
EDEX 419	Education of Persons with Brain Injuries or Learning Disabilities	3cr	
EDEX 460	Family Perspectives on Disability	3cr	

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Dual Certification

Students majoring in Elementary 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.

Dual Certification–Education of Exceptional Persons for Majors in Elementary Education

EDEX 111	Introduction to Exceptional Persons <i>or</i>	3cr
EDEX 300	Education of Students with Disabilities in Inclusive Elementary Classrooms	2cr
EDEX 416	Education of Persons with Emotional or Behavioral Disorders	3cr
EDEX 417	Education of Persons with Mental Retardation or Developmental Disabilities	3cr
EDEX 418	Education of Persons with Physical or Multiple Disabilities	3cr
EDEX 419	Education of Persons with Brain Injuries or Learning Disabilities	3cr
EDEX 425	Methods and Curriculum (Mild-Moderate Disabilities)	3cr
EDEX 435	Methods and Curriculum (Severe-Profound Disabilities)	3cr
EDEX 440	Ethical and Professional Behavior	1cr
EDUC 342	Pre-student Teaching Clinical Experience II (EDEX)	1cr
EDUC 421	Student Teaching (EDEX) (1)	6cr
Recommended Electives:		

EDEX 340	Introduction to Behavior Management in Special Education	3cr
SPLP 254	Classroom Management of Language Disorders	3cr
(1) The 6cr of student teaching in EDEX with students with severe and profound disabilities are in addition to the 12cr normally required for Elementary Education or Early Childhood Education/PreK-Grade 6 majors.		

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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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Bachelor of Science in Education–Speech-Language Pathology and Audiology (*)

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: 6cr, MATH 217 and any course from the approved list Natural Science: laboratory science sequence required (BIOL 103-104 recommended) Social Science: PSYC 101 Liberal Studies Electives: 6cr, PSYC 310 , no courses with SPLP prefix	51
Pre-Teacher Certification Track only:	10
Pre-Professional Education Sequence:	
COMM 103 Digital Instructional Technology	3cr
EDSP 102 Educational Psychology	3cr
Professional Education Sequence:	
EDUC 442 School Law	1cr
SPLP 412 Organization and Administration of Speech and Hearing Program	3cr
Major:	38
Required Courses:	
EDEX 111 Introduction to Exceptional Persons	3cr
EDEX 222 Methods of Teaching Reading to Persons with Disabilities	3cr
EDUC 242 Pre-Student Teaching Clinical Experience I	1cr
EDUC 342 Pre-Student Teaching Clinical Experience II	1cr

SPLP 111	Introduction to Communication Disorders	3cr	
SPLP 122	Clinical Phonology	3cr	
SPLP 222	Introduction to Audiology	3cr	
SPLP 242	Speech Science I	3cr	
SPLP 251	Anatomy and Physiology of the Speech and Hearing Mechanism	3cr	
SPLP 311	Aural Rehabilitation (1)	3cr	
SPLP 334	Language Development	3cr	
SPLP 342	Speech Science II	3cr	
SPLP 406	Articulation and Language Disorders	3cr	
SPLP 408	Stuttering and Voice Disorders	3cr	
Free Electives: EDUC 499 and SPLP 420 recommended			21 or 31
General Track		31cr	
Pre-Teacher Certification Track		21cr	
Total Degree Requirements:			120
(*) See requirements leading to teacher certification, titled " 3-Step Process for Teacher Education ," in the College of Education and Educational Technology section of this catalog.			
(1) A minimum cumulative 3.0 GPA 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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C. Education of Deaf and Hard-of-Hearing Persons

Completion of the sequence of courses in Education of Deaf and Hard-of-Hearing Persons 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](#).

- A. 25 hours of observation of itinerant and self-contained classrooms for the hearing impaired.
- B. 10 hours of observation in regular education classrooms.
- C. 10 hours of observation in special education classrooms.
- D. 5 hours of observation in a noneducational setting.

The student will complete 30 hours of individual clinical experience through enrollment in [EDHL 329](#) and [330](#) and 35 hours of school-based practicum through enrollment in [EDUC 342](#).

Bachelor of Science in Education—Education of Deaf and Hard-of-Hearing Persons (*)

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 151 , MATH (1) Social Science: PSYC 101 Liberal Studies Electives: 6cr, no courses with EDHL prefix		54
College:		28
Preprofessional Education Sequence:		
COMM 103	Digital Instructional Technology	3cr
EDSP 102	Educational Psychology	3cr
Professional Education Sequence:		
EDHL 360	General Methodology for Education of Deaf and Hard-of-Hearing Persons I	2cr
EDHL 361	General Methodology for Education of Deaf and Hard-of-Hearing	2cr

	Persons II		
EDSP 477	Assessment of Student Learning: Design and Interpretation of Educational Measures	3cr	
EDUC 242	Pre-student Teaching Clinical Experience I	1cr	
EDUC 342	Pre-student Teaching Clinical Experience II	1cr	
EDUC 421	Student Teaching-Hearing Impaired (Pri-Elem)	6cr	
EDUC 441	Student Teaching-Hearing Impaired (Jr-Sr H.S.)	6cr	
EDUC 442	School Law	1cr	
Major:			38
Required Courses:			
EDEX 111	Introduction to Exceptional Persons	3cr	
EDHL 114	Introduction to Deaf and Hard-of-Hearing Persons	3cr	
EDHL 115	Introduction to American Sign Language	1cr	
EDHL 215	Intermediate American Sign Language	2cr	
EDHL 307	Speech for Deaf and Hard-of-Hearing Persons	3cr	
EDHL 308	Language for Deaf and Hard-of-Hearing Persons	3cr	
EDHL 315	Manually Coded English	1cr	
EDHL 316	Interpreting for Teachers	1cr	
EDHL 329	Teaching–Collaborative Practicum I	1cr	
EDHL 330	Teaching–Collaborative Practicum II	1cr	
EDHL 415	ASL Pedagogy	1cr	
EDHL 451	Teaching Reading to Deaf and Hard-of-Hearing Persons	3cr	
EDHL 465	Parent-Preschool Programs for Deaf and Hard-of-Hearing Persons	3cr	
SPLP 222	Introduction to Audiology	3cr	
SPLP 311	Aural Rehabilitation	3cr	
SPLP 334	Language Development	3cr	
Controlled Electives:			
CDER 218 or EDEX 112		3cr	
(#) Total Degree Requirements:			120
<p>(*) A minimum cumulative and major GPA of 3.0 is required to enroll in all 300- and 400-level courses. See requirements leading to teacher certification, titled “3-Step Process for Teacher Education,” in the College of Education and Educational Technology section of this catalog.</p> <p>(1) Pennsylvania State Department of Education requires two college-level (6cr) math courses. Students may take any Liberal Studies MATH course to fulfill this requirement.</p> <p>(#) See advisory paragraph “Timely Completion of Degree Requirements” in the Requirements for Graduation section of this catalog.</p>			

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Deaf Studies Minor

A minor in Deaf Studies introduces the participant to essential information regarding hearing loss and deaf culture. In addition, basic sign language skills are developed. This course of study enables individuals to have a better understanding of the needs of deaf and hard-of-hearing persons and to communicate with deaf persons at a basic level.

The minor is an 18-credit program with 12 required and 6 elective credits. Required credits include the core courses which are essential to understanding the language and culture of the deaf community. The elective credits allow the minor candidate to select a more focused area of concentration.

Students must maintain a cumulative GPA of not less than 2.8 to enter and complete the minor. Except for the introductory courses, [EDHL 114](#) and [115](#), only students who have officially declared a Deaf Studies minor will be able to schedule the designated courses. The grade received in American Sign Language courses must be a "C" or better to complete the minor.

This minor would be of interest to Anthropology, Criminology, Education, Nursing, Psychology, and Sociology majors and anyone else who is interested in interacting with deaf or hard-of-hearing persons.

Required Courses:		
EDHL 114	Introduction to Deaf and Hard-of-Hearing Persons	3cr
EDHL 115	Introduction to American Sign Language	1cr
EDHL 215	Intermediate American Sign Language	2cr
EDHL 308	Language for Deaf and Hard-of-Hearing Persons	3cr
EDHL 314	Deaf Culture	3cr
Controlled Electives: Select 6cr from the following:		
EDEX 111	Introduction to Exceptional Persons	3cr
EDHL 465	Parent-Preschool Programs for Deaf and Hard-of-Hearing Persons	3cr
SPLP 222	Introduction to Audiology	3cr

Dual Certification

Students majoring in Elementary Education may complete academic requirements for certification in Education of Deaf and Hard-of-Hearing Persons by completing the following requirements. Students are advised that completion of requirements for a second certification will take approximately two extra semesters.

Dual Certification–Education of Deaf and Hard-of-Hearing Persons for Majors in Elementary Education

EDHL 114	Introduction to Hard-of-Hearing Persons	3cr
EDHL 115	Introduction to American Sign Language	1cr
EDHL 215	Intermediate American Sign Language	2cr
EDHL 307	Speech for Deaf and Hard-of-Hearing Persons	3cr
EDHL 308	Language for Deaf and Hard-of-Hearing Persons	3cr
EDHL 329	Teaching–Collaborative Practicum I	1cr
EDHL 330	Teaching–Collaborative Practicum II	1cr
EDHL 415	ASL Pedagogy	1cr
EDHL 451	Teaching Reading to Deaf and Hard-of-Hearing Persons	3cr
EDUC 342	Pre-student Teaching Clinical Experience II	1cr
EDUC 421	Student Teaching (EDHL) (1)	6cr
SPLP 222	Introduction to Audiology	3cr
SPLP 311	Aural Rehabilitation	3cr
Recommended Electives:		
SPLP 242	Speech Science I	3cr
SPLP 334	Language Development	3cr

- (1) **Student Teaching Configuration**–In addition to their regular requirement of 12cr in Elementary Education, dual certification students must do an extra 6cr placement. The recommended pattern is as follows:
- * 6cr in a regular elementary classroom
 - * 6cr in an elementary classroom with deaf and/or hard-of-hearing pupils included
 - * 6cr in upper school classroom with deaf and/or hard-of-hearing pupils
 - * Total = 18cr inclusive for both certifications

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D. Disability Services

Completion of this multidisciplinary curriculum in educational, social, and natural sciences prepares graduates to work as professionals serving individuals with disabilities in a wide array of public and private sector agencies and service providers including adult Mental Health/Mental Retardation (MH/MR) programs. Students who complete the program will earn a Bachelor of Science degree and will be prepared for employment as instructional assistants in public or private schools, therapeutic staff support personnel, or in a wide variety of capacities in MH/MR programs, community-based employment/living programs, early intervention programs, residential treatment programs, preschool/day care programs, and other agency service providers for individuals with disabilities. The minimum standard of eligibility for entrance into the program is a 2.75 GPA.

Bachelor of Science–Disability Services

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: 3cr Social Science: PSYC 101 , SOC 151 Liberal Studies Electives: 3cr, no courses with EDEX, EDHL, SPLP, ELED, or ECED prefixes		48
Major:		43
Required Courses:		
EDEX 111	Introduction to Exceptional Persons	3cr
EDEX 112	Typical and Atypical Growth and Development	3cr
EDEX 222	Methods of Teaching Reading to Persons with Disabilities	3cr
EDEX 340	Introduction to Behavior Management in Special Education	3cr
EDEX 415	Preschool Education for Children with Disabilities	3cr
EDEX 460	Family Perspectives on Disability	3cr
EDEX 493	Internship/Field Training	12cr
EDHL 114	Introduction to Deaf and Hard-of-Hearing Persons	3cr
EDHL 115	Introduction to American Sign Language	1cr
SPLP 254	Classroom Management of Language Disorders	3cr
Two courses from the following:		
EDEX 416	Education of Persons with Emotional or Behavioral Disorders	3cr
EDEX 417	Education of Persons with Mental Retardation or Developmental Disabilities	3cr
EDEX 418	Education of Persons with Physical or Multiple Disabilities	3cr
EDEX 419	Education of Persons with Brain Injuries or Learning Disabilities	3cr
Other Requirements:		6
Professional Sequence:		
COMM 103 <i>or</i> EDEX 103	Digital Instructional Technology <i>or</i> Special Education Technology	3cr
EDSP 102	Educational Psychology	3cr
Free Electives: (1)		23
Students may use these credits toward study of a minor discipline or as free electives.		
Total Degree Requirements:		120
(1) It is recommended that students pursue minor studies in one of the following minor tracks: Child and Family Studies, Deaf Studies, Educational Psychology, Psychology, or Sociology.		

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Department of Student Affairs and Higher Education

Chairperson: Ronald Lunardini

Faculty: Belch, Hall, Mueller

Website: www.iup.edu/sahe/

The Department of Student Affairs in Higher Education offers a Master of Arts degree in Student Affairs in Higher Education. Students in this program prepare to be professional practitioners in two- and four-year colleges and universities in a variety of administrative areas, i.e., admissions, housing and residence life, student development programs, student activities and organizations, Greek affairs, registration, financial aid, career planning and development, minority affairs, health services, athletics, advising and testing, international student services, and counseling programs.

Please refer to the [Graduate School Catalog](#) for further details.



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Educational and School Psychology (EDSP)

Department of Educational and School Psychology
College of Education and Educational Technology

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

EDSP 102 Educational Psychology
EDSP 281 Special Topics
EDSP 373 Psychology of Adolescent Education
EDSP 376 Behavior Problems
EDSP 378 Learning
EDSP 477 Assessment of Student Learning: Design and Interpretation of Educational Measures
EDSP 481 Special Topics in Educational Psychology
EDSP 482 Independent Study
EDSP 493 Educational Psychology Honors Internship
EDSP 499 Independent Study

EDSP 102 Educational Psychology

3c-0l-3cr

Promotes an understanding of the principles of psychology governing human behavior, with particular emphasis on the relation to learner, learning process, and learning situation in an educational environment.

EDSP 281 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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.

EDSP 373 Psychology of Adolescent Education

3c-0l-3cr

Prerequisite: [EDSP 102](#)

A study of significant characteristics, behavior, and educational and social problems of adolescents.

EDSP 376 Behavior Problems

3c-0l-3cr

Prerequisite: [EDSP 102](#)

An examination of emotional and social aspects of behavior problems encountered in classroom situations and potential remedial techniques.

EDSP 378 Learning

3c-0l-3cr

Prerequisite: [EDSP 102](#)

Explores learning theories and educational application in the classroom.

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EDSP 477 Assessment of Student Learning: Design and Interpretation of Educational Measures

3c-0l-3cr

Prerequisites: [PSYC 101](#) or permission

Acquaints students with major methods and techniques of evaluation used to assess and report growth, development, and academic achievement of learners in elementary and secondary schools, including interpretation of standardized test information.

EDSP 481 Special Topics in Educational Psychology

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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-1-3cr

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 493 Educational Psychology Honors Internship

1cr

Prerequisites: [EDSP 102](#) and admission to Honors Track

Provides direct experience in one of three centers located in the Educational and School Psychology Department; centers include the Child Study Center, the Center for Educational and Program Evaluation, and the Center for Rural Gifted Education. Other centers located within the College of Education and Educational Technology or the Teacher Education Program may be considered if approved by the Honors Track director. This course may be repeated.

EDSP 499 Independent Study

var-1-3cr

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Education of Exceptional Persons (EDEX)

Department of Special Education and Clinical Services
College of Education and Educational Technology

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

EDEX 103 Special Education Technology
EDEX 111 Introduction to Exceptional Persons
EDEX 112 Typical and Atypical Growth and Development
EDEX 221 Methods of Teaching Mathematics to Persons with Disabilities
EDEX 222 Methods of Teaching Reading to Persons with Disabilities
EDEX 231 Methods of Teaching Content Area Subjects to Persons with Disabilities
EDEX 300 Education of Students with Disabilities in Inclusive Elementary Classrooms
EDEX 301 Education of Students with Disabilities in Inclusive Secondary Settings
EDEX 321 Methods of Teaching Language Arts to Persons with Disabilities
EDEX 340 Introduction to Behavior Management in Special Education
EDEX 415 Preschool Education for Children with Disabilities
EDEX 416 Education of Persons with Emotional or Behavioral Disorders
EDEX 417 Education of Persons with Mental Retardation or Developmental Disabilities
EDEX 418 Education of Persons with Physical or Multiple Disabilities
EDEX 419 Education of Persons with Brain Injuries or Learning Disabilities
EDEX 425 Methods and Curriculum (Mild-Moderate Disabilities)
EDEX 435 Methods and Curriculum (Severe-Profound Disabilities)
EDEX 440 Ethical and Professional Behavior
EDEX 460 Family Perspectives on Disability
EDEX 480 Seminar in Special Education
EDEX 481 Special Topics
EDEX 493 Internship/Field Training

EDEX 103 Special Education Technology

3c-0l-3cr

Addresses the use of assistive technology in the classroom in areas of communication, mobility, education, recreation, vocation, independence, and therapy/rehabilitation. The emphasis is on developing awareness of the diversity of assistive technology currently available for individuals with disabilities. Specific applications of assistive technology devices, which improve and maintain the functioning capabilities of individuals with disabilities, are presented. Students engage in independent learning activities and receive information that enables them to gather information about assistive technology devices, companies, and related services.

EDEX 111 Introduction to Exceptional Persons

3c-0l-3cr

Prerequisite: Department majors, dual majors, minors, and official incoming transfers only

Surveys characteristics, needs, problems, and behavior patterns of individuals who have disabilities or who are gifted. Develops an understanding

and knowledge of individuals with sensory, behavioral, physical, cognitive, language, and learning disabilities. Acquaints students with history and legislative bases of special education.

EDEX 112 Typical and Atypical Growth and Development

3c-01-3cr

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.

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EDEX 221 Methods of Teaching Mathematics to Persons with Disabilities

3c-01-3cr

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. Also emphasizes methods of helping children learn mathematical concepts through physical activity and ways to adapt regular classroom materials to meet needs and abilities of slow and disabled learners.

EDEX 222 Methods of Teaching Reading to Persons with Disabilities

3c-01-3cr

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-01-3cr

Prerequisites: [EDEX 111](#), 3.0 GPA

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.

EDEX 300 Education of Students with Disabilities in Inclusive Elementary Classrooms

2c-01-2cr

Prerequisites: Early Childhood Education/PreK-Grade 6 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. Emphasizes 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.

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EDEX 301 Education of Students with Disabilities in Inclusive Secondary Settings

2c-01-2cr

Prerequisite: 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 as 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. Emphasizes 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.

EDEX 321 Methods of Teaching Language Arts to Persons with Disabilities

3c-01-3cr

Prerequisites: [EDEX 111](#), [222](#), [SPLP 254](#) 3.0 GPA

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-01-3cr

Prerequisites: [EDEX 111](#), [112](#), [PSYC 101](#)

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.

EDEX 415 Preschool Education for Children with Disabilities

3c-01-3cr

Prerequisites: Departmental permission, 3.0 GPA

Provides information on assessment, intervention strategies, curriculum, and prescriptive planning for preschool children with disabilities. 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/PreK-Grade 6 majors.

EDEX 416 Education of Persons with Emotional or Behavioral Disorders

3c-01-3cr

Prerequisites: Successful completion of [Step 1 of the 3-Step Process](#), a dual major in Disability Services/Sociology or a minor in EDEX

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.

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EDEX 417 Education of Persons with Mental Retardation or Developmental Disabilities

3c-01-3cr

Prerequisites: Successful completion of [Step 1 of the 3-Step Process](#), a dual major in Disability Services/Sociology or a minor in EDEX

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.

EDEX 418 Education of Persons with Physical or Multiple Disabilities

3c-01-3cr

Prerequisites: Successful completion of [Step 1 of the 3-Step Process](#), a dual major in Disability Services/Sociology or a minor in EDEX

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-01-3cr

Prerequisites: Successful completion of [Step 1 of the 3-Step Process](#), a dual major in Disability Services/Sociology or a minor in EDEX

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-01-3cr

Prerequisites: [EDEX 221](#), [222](#), [231](#), [321](#), [340](#), successful completion of [Step 1 of the 3-Step Process](#)

An 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.

EDEX 435 Methods and Curriculum (Severe-Profound Disabilities)

3c-01-3cr

Prerequisites: [EDEX 221](#), [222](#), [231](#), [321](#), [340](#), successful completion of [Step 1 of the 3-Step Process](#)

Emphasizes methods designed to facilitate the development of an integrated, functional, and community-based curriculum that prepares students for participation in a wide variety of postschool environments.

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EDEX 440 Ethical and Professional Behavior

1c-01-1cr

Prerequisites: Departmental permission, successful completion of [Step 1 of the 3-Step Process](#)

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 460 Family Perspectives on Disability

3c-0l-3cr

Prerequisite: [PSYC 101](#)

Intended for any major who will work with families and youth with disabilities. By understanding families as competent and resourceful systems, students critically examine ways to collaborate effectively with family members. Focuses on legal and philosophical bases for supporting families in making important decisions affecting the education and care of their children.

EDEX 480 Seminar in Special Education

var-1-3cr

Prerequisite: Departmental permission

The pursuit of knowledge regarding specific concerns of the exceptional which are not ordinarily considered in such detail during regular classroom instruction. Students 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.

EDEX 481 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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.

EDEX 493 Internship/Field Training

var-12cr

Allows the intern to demonstrate competencies working in a public or private agency providing educational/rehabilitation services. This may include, but not be limited to, writing and analyzing comprehensive evaluation reports, counseling individuals with disabilities, understanding agency and/or service delivery responsibilities and limitations, referral and follow-up processes, and use of various assessment approaches in evaluating an individual's capacity to function independently in a broad range of community settings.

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Education (EDUC)

College of Education and Educational Technology

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

EDUC 242 Pre-Student Teaching Clinical Experience I
EDUC 281 Special Topics
EDUC 342 Pre-Student Teaching Clinical Experience II
EDUC 389 Field Experience Intervention
EDUC 408 Reading in the Content Areas
EDUC 415 Computers in the School Curriculum
EDUC 421 Student Teaching
EDUC 423 Professional Practicum, Including School Law
EDUC 431 Student Teaching in Family and Consumer Sciences
EDUC 441 Student Teaching
EDUC 442 School Law
EDUC 451 Teaching Science in the Secondary School
EDUC 452 Teaching of English and Communication in the Secondary School
EDUC 453 Teaching of Foreign Languages in the Secondary School
EDUC 455 Teaching of Social Studies in Secondary Schools
EDUC 456 Teaching Math in the Secondary Schools
EDUC 462 Issues and Innovations in Education
EDUC 481 Special Topics
EDUC 482 Independent Study
EDUC 495 International Study Tour in Education
EDUC 499 Multicultural/Multiethnic Education

EDUC 242 Pre-Student Teaching Clinical Experience I

var-1cr

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-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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-1cr

Prerequisites: [EDUC 242](#) and admission to junior standing

Work toward the development of specific competencies that relate to individual major fields of teaching.

EDUC 389 Field Experience Intervention

3c-0l-3cr

Prerequisites: Permission of department and instructor; Elementary Education or Early Childhood Education/PreK-Grade 6 major

Assists in achieving the competencies within the major necessary for performance in student teaching. Teaching skills are developed through one-on-one tutoring and a field experience. Each student works 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. Only offered on a pass/fail basis.

EDUC 408 Reading in the Content Areas

3c-0l-3cr

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-0l-3cr

Prerequisite: [BTED/COSC/IFMG 101](#) or instructor permission

Uses a variety of computer software including word processing, record management programs, and simulation programs. Emphasizes the application of computer programs within the K-12 school curriculum.

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EDUC 421 Student Teaching

var-6cr

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.

EDUC 423 Professional Practicum, Including School Law

var-3cr

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-6cr

Prerequisite: Admission to Student Teaching

An experience in teaching family and consumer sciences at the secondary level.

EDUC 441 Student Teaching

var-6-12cr

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.

EDUC 442 School Law

1c-0l-1cr

Required of all teacher certification students. Includes an overview of legal principles that apply to special areas of education. Must be taken prior to student teaching.

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EDUC 451 Teaching Science in the Secondary School

2c-2l-3cr

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-0l-3cr

Prerequisites: [ENGL 314](#), [323](#), and 380 and admission to Student Teaching

A prerequisite to student teaching in English. Introduces current professional practices in the teaching of English and communications in high school.

EDUC 453 Teaching of Foreign Languages in the Secondary School

3c-0l-3cr

Prerequisites: Grade of C or better in [SPAN 390](#) or [FRNC/GRMN 390](#); instructor permission

Develops an understanding of current theories of foreign language learning through exploration of relevant research. Students read about and discuss the implications of key research for teaching in secondary school classrooms. Opportunities are provided for students to use the theoretical base to design and present classroom lessons and to reflect on the effectiveness of their teaching. Special attention is given to designing performance-based language assessments and to adapting instruction to address the special needs of learners. Taught fall semester only.

EDUC 455 Teaching of Social Studies in Secondary Schools

3c-0l-3cr

Prerequisite: Admission to Student Teaching

A study of modern methods and techniques for teaching social studies and of current curricula in social studies.

EDUC 456 Teaching Math in the Secondary Schools

3c-0l-3cr

Prerequisite: Admission to Student Teaching

A study of modern methods and techniques for teaching mathematics and current curricula.

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EDUC 462 Issues and Innovations in Education

3c-0l-3cr

A study of issues and innovations which influenced education is included. Educational innovations and issues which deal with curriculum, school organization, and materials of instruction are examined.

EDUC 481 Special Topics

3c-0l-3cr

Prerequisite: By permission only

Provides an opportunity to investigate in-depth an area of education under professional supervision.

EDUC 482 Independent Study

var-1-3cr

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-3cr

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.

EDUC 499 Multicultural/Multiethnic Education

2c-0l-2cr

Prerequisite: One methods course must be taken prior to, or concurrently with, EDUC 499

Provides an understanding and appreciation of cultural diversity in the United States. Students gain the ability to locate and develop curricular materials appropriate to this country's diversity.

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Department of Art

Chairperson: Richard Ciganko

Faculty: Boerner, Fortushniak, Gillham, Kabala, LaRoche, Loar, Mambo, Mannikka, Matsubara, Mitchell, Nestor, Palmisano, Rode, Sweeney, Villalobos-Echeverria, Weiland

Professors emeriti: Ali, Balsiger, Battaglini, Ben-Zvi, Burwell, Clay, DeFurio, Dongilla, Dropcho, Hamilton, Hedman, Innes, Seelhorst, Vislosky, Wert

Website: www.iup.edu/art

Bachelor of Arts–Art/History Track

Bachelor of Arts–Art/Studio

Bachelor of Fine Arts–Art Studio

Bachelor of Science in Education–Art Education

Minor–Art History

The Department of Art provides a sequence of foundation and advanced-level courses directed toward the development of the student's creative and expressive abilities. Degrees offered are the Bachelor of Fine Arts degree with a major in Studio, Bachelor of Arts degree with a major in Art/Studio, Bachelor of Arts degree with a major in Art/History, and Bachelor of Science in Education degree with a major in Art Education. Minors in the department include Art and Art History.

Students pursuing studio or art education degrees are initially admitted into the department through the Entrance Portfolio Review. Art history majors are not required to submit a portfolio. Students interested in pursuing the Bachelor of Fine Arts degree with a major in Studio are initially admitted into the Bachelor of Arts degree with a major in Art/Studio and may transfer into the B.F.A.-Studio program at the end of the sophomore year by successfully completing the B.F.A. Sophomore Review.

The Bachelor of Fine Arts degree with a major in Studio prepares students for careers as professional visual artists and is a platform from which they might go on to study for the Master of Fine Arts level, the terminal degree in the field. The Bachelor of Fine Arts degree with a major in Studio offers three studio emphasis tracks: the Two-Dimensional Emphasis Track (including: drawing, graphic design, painting, and print media), the Three-Dimensional Emphasis Track (including: ceramics, fibers, jewelry and metals, sculpture, and wood and furniture design), and the Individualized Studio Emphasis Track (in which students are able to build a degree program to meet specialized individual needs).

The Bachelor of Arts degree with a major in Art/Studio offers students a broad range of advanced studio options.

The mission of the Bachelor of Arts degree with a major in Art/History is to provide art history majors with a solid foundation in the history of art, from ancient through modern times. The degree prepares students for graduate study leading to careers in museums, galleries, fine art libraries, visual resources, teaching, and research. Specific goals, objectives, and competencies related to this degree include the acquisition and demonstration of critical thinking, research, and writing skills; knowledge of terminology, methodology, and competency with various approaches to art historical inquiry; and the ability to conduct art history research through independent investigations.

The Bachelor of Science in Education degree with a major in Art Education is a professional degree program leading to certification to teach K-12 art in the Commonwealth of Pennsylvania. The program reflects contemporary theory and practice in art studio, art history, criticism, aesthetics, culture, and pedagogy. The program complies with all Pennsylvania standards needed for certification to teach art in the commonwealth.

All art majors are obligated to fulfill the university requirement for Liberal Studies coursework. Art Education majors must achieve and maintain a 3.0 cumulative GPA. Bachelor of Fine Arts-Studio majors must achieve a 2.5 cumulative GPA and earn a grade of C or better in all ART and ARHI courses to graduate.

An Art Minor is available to interested majors from other university disciplines. The Art Minor consists of at least 18 credits in art courses approved by the Art Department chairperson.

The mission of the Art History Minor is to provide students with the necessary skills to critically assess the origins and changing dynamics of the visual arts. By its very nature, Art History is multidisciplinary and not only develops visual literacy and tools for critical thinking but also introduces students to the sociocultural contexts in which artworks are produced, providing students with the opportunities for understanding cultural diversity and lifelong learning.

The College of Fine Arts and the Department of Art have established an exchange program with the National Art Academies of Slovenia and Croatia. Qualified and highly skilled juniors and seniors may participate in the exchange by application to the Art Department exchange coordinator and with approval of their major studio professor, the Department of Art chair, and the College of Fine Arts exchange coordinator.

Detailed information regarding application to one of the degree programs and scheduling a Portfolio Review can be obtained by calling the Department of Art office at 724-357-2530 or by e-mail through the Department of Art website at www.iup.edu/art.

Bachelor of Arts–Art/History Track

Liberal Studies: As outlined in Liberal Studies section with the following specifications:		50
Mathematics: 3cr		
Liberal Studies Electives: 6cr, no courses with ARHI prefix		
Major:		
Foundation Required:		18
ARHI 205	Ancient to Medieval Art	3cr
ARHI 207	Renaissance through Modern Art	3cr
ARHI 224	Introduction to Asian Art	3cr
ARHI 413	Senior Seminar	3cr
ART 112	Fundamentals of Drawing	3cr
ART 114	Color and Two-Dimensional Design	3cr
Controlled Electives: Choose from the following:		27
Up to 6cr (2 courses) of Art Studio, prefix ART		
ARHI 100	Arts of the Twentieth Century	3cr
ARHI 222	Art in America	3cr
ARHI 300	Native American Art	3cr
ARHI 407	Medieval Art	3cr
ARHI 408	Italian Renaissance Art	3cr
ARHI 409	Baroque and Rococo Art	3cr
ARHI 410	Nineteenth-Century European Painting	3cr
ARHI 411	Twentieth-Century European Art	3cr
ARHI 412	Classical Art	3cr
ARHI 416	Northern Renaissance Art	3cr
ARHI 417	Byzantine Art	3cr
ARHI 418	African Art	3cr
ARHI 423	Art of Japan	3cr
ARHI 425	Art of China	3cr
ARHI 493	Internship	3cr
Foreign Language Required: Foreign Language Intermediate Level (1)		12
Free Electives:		13
Total Degree Requirements:		120
(1) Intermediate-level foreign language may be included in Liberal Studies Electives.		

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Bachelor of Arts–Art/Studio (*)

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Fine Arts: ARHI 205 Mathematics: 3cr Liberal Studies Electives: 3cr, ARHI 207 , no courses with ART prefix		48
Major:		
Foundation Required:		12
ART 111	Figure Drawing	3cr
ART 112	Fundamentals of Drawing	3cr
ART 113	Three-Dimensional Design	3cr
ART 114	Color and Two-Dimensional Design	3cr
Level II Studio Electives: (select 6 of the following 8 courses)		18
ART 211	Painting	3cr
ART 213	Woodworking: Function and Form	3cr
ART 214	Ceramics	3cr
ART 215	Sculpture	3cr
ART 216	Jewelry and Metals	3cr
ART 217	Print Media	3cr
ART 218	Introduction to Graphic Design	3cr
ART 219	Fibers	3cr
Art History Required:		6
ARHI 100	Arts of the Twentieth Century	3cr
Controlled Art History Elective (Select one course in the last three semesters: ARHI 413 , 417 , 423 , or 425 . Course must be designated /W/.)		3cr
Advanced Studio Required:		21
Advanced Studio courses from the following: ART 316 , 355 , 356 , 421 , 451 , 452 , 453 , 454 , 455 , 456 , 457 , 459 , 460 , 481 , 493 (1, 2)		21cr
Free Electives:		15
Total Degree Requirements:		120
<p>(1) Students must complete 3cr within an advanced studio before permission will be granted to enroll in the 6cr component of the advanced level. Permission of the instructor is a prerequisite to all 6cr advanced courses.</p> <p>(2) Inclusion of internship credit 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.</p> <p>(#) See advisory paragraph "Timely Completion of Degree Requirements" in the section on Requirements for Graduation.</p>		

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Bachelor of Fine Arts–Art Studio (*)

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Fine Arts: ARHI 205 Mathematics: 3cr Liberal Studies Electives: 3cr, ARHI 207 , no courses with ART prefix		48
Major:		
Foundation Required:		12
ART 111	Figure Drawing	3cr
ART 112	Fundamentals of Drawing	3cr
ART 113	Three-Dimensional Design	3cr
ART 114	Color and Two-Dimensional Design	3cr
Level II Studio Electives: (Select 6 of the following 8 courses)		18

ART 211	Painting	3cr	
ART 213	Woodworking: Function and Form	3cr	
ART 214	Ceramics	3cr	
ART 215	Sculpture	3cr	
ART 216	Jewelry and Metals	3cr	
ART 217	Print Media	3cr	
ART 218	Introduction to Graphic Design	3cr	
ART 219	Fibers	3cr	
Art History Required:			6
ARHI 100	Arts of the Twentieth Century	3cr	
Controlled Art History Elective (Select one course in the last 3 semesters: ARHI 413 , 417 , 423 , or 425 . Course must be designated /W/.)		3cr	
Advanced Studio Required: (Select 1 of 3 Advanced Studio Emphasis Tracks)			27
Three-Dimensional Studio Track:			
Advanced 3-D studios include: ART 316 , 451 , 452 , 453 , 459 , 460 , 481 , 493 (1, 2)			
Primary Advanced Studio (choose one studio area above)		15cr	
Synthesis Advanced Studios (choose three other 3-D advanced studios)		9cr	
Two-Dimensional Studio (choose one from advanced 2-D studio options)		3cr	
Two-Dimensional Studio Track:			
Advanced 2-D studios include: ART 355 , 356 , 421 , 454 , 455 , 456 , 457 , 481 , 493 (1, 2)			
Primary Advanced Studio (choose one studio area above)		15cr	
Synthesis Advanced Studios (choose three other 2-D advanced studios)		9cr	
Three-Dimensional Studio (choose one from advanced 3-D studio options)		3cr	
Individualized Advanced Studio Track			
(Student with specialized interest can submit a proposal for advanced studio study. Approval required by department chair, Studio division chair, and student's major advisor.)		27cr	
Select 27cr from the following: ART 316 , 355 , 356 , 421 , 451 , 452 , 453 , 454 , 455 , 456 , 457 , 459 , 460 , 481 , 493 (1, 2)			
Controlled Advanced Studio Electives:			6
Select 6cr from the following: ART 316 , 355 , 356 , 421 , 451 , 452 , 453 , 454 , 455 , 456 , 457 , 459 , 460 , 481 , 493 (1, 2)			
Senior Thesis and Professional Practicum			3
ART 400	Senior Thesis and Professional Practicum	3cr	
(#) Total Degree Requirements:			120
<p>(1) Students must complete 3cr within an advanced studio before permission will be granted to enroll in the 6cr component of the advanced level. Permission of the instructor is a prerequisite to all 6cr advanced courses.</p> <p>(2) Inclusion of internship credit 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.</p> <p>(3) To enter program, art major must successfully complete the B.F.A. Sophomore Review and have minimum 2.5 GPA overall.</p> <p>(4) Student must achieve a cumulative 2.5 GPA and earn a "C" or better in all ART and ARHI courses to graduate.</p> <p>(#) See advisory paragraph "Timely Completion of Degree Requirements" in the section on Requirements for Graduation.</p>			

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Bachelor of Science in Education–Art Education (*)

Liberal Studies: As outlined in Liberal Studies section with the following specifications (1):	48
Fine Arts: Fulfilled by ARHI 205	

Mathematics: 6cr			
Social Science: PSYC 101			
Liberal Studies Electives: 0cr			
College:			23
Preprofessional Education Sequence:			
COMM 103	Digital Instructional Technology	3cr	
EDSP 102	Educational Psychology	3cr	
Professional Education Sequence:			
EDEX 301	Education of students with Disabilities in Inclusive Secondary Settings	2cr	
EDUC 242	Pre-student Teaching Clinical Experience I	1cr	
EDUC 342	Pre-student Teaching Clinical Experience II	1cr	
EDUC 421	Student Teaching (Elementary)	6cr	
EDUC 441	Student Teaching (Secondary)	6cr	
EDUC 442	School Law	1cr	
Major:			24
ART 112	Fundamentals of Drawing	3cr	
ART 113	Three-Dimensional Design	3cr	
ART 114	Color and Two-Dimensional Design	3cr	
ARHI 207	Renaissance to Modern Art	3cr	
ARED 315	Issues of Art in K-12 Programs	3cr	
ARED 317	Art in K-6 Programs	3cr	
ARED 318	Art in 7-12 Programs	3cr	
ARED 320	Art Criticism and Aesthetics in K-12	3cr	
Controlled Electives:			30
Select 15cr from the following: ARHI 100 , ART 111 , 211 , 213 , 214 , 215 , 216 , 217 , 218 , 219		15cr	
Select 12cr from any ARHI or ART prefix		12cr	
Select 3cr from any ARED prefix		3cr	
(#) Total Degree Requirements:			125
(*) See requirements leading to teacher certification, titled " 3-Step Process for Teacher Education ," in the College of Education and Educational Technology section of this catalog.			
(#) See advisory paragraph "Timely Completion of Degree Requirements" in the section on Requirements for Graduation.			

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Minor–Art History

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Required Courses:			9
ARHI 205	Ancient to Medieval Art	3cr	
ARHI 207	Renaissance through Modern Art	3cr	
ARHI 224	Introduction to Asian Art	3cr	
Any three of the following:			9
ARHI 100	Arts of the Twentieth Century	3cr	
ARHI 407	Medieval Art	3cr	
ARHI 408	Italian Renaissance Art	3cr	
ARHI 409	Baroque and Rococo Art	3cr	
ARHI 410	Nineteenth-Century European Painting	3cr	
ARHI 411	Twentieth-Century European Art	3cr	
ARHI 412	Classical Art	3cr	
ARHI 413	Senior Seminar	3cr	
ARHI 417	Byzantine Art	3cr	

ARHI 418	African Art	3cr
ARHI 423	Art of Japan	3cr
ARHI 425	Art of China	3cr
ARHI 493	Internship	3cr

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Department of Music

Chairperson: Lorraine P. Wilson

Faculty: Baumer, Bird, Caulder, Chepaitis, Clewell, Dearing, Dickinson, Eisensmith, D. Ferguson, L. Ferguson, Fry, Hastings, Horner, Jennings, Kingan, Kuehn, Mantel, Martynuik, Peavler, Perlongo, Radell, Sartori, Scandrett, Stamp, Staples, Wacker, Wheatley, Worzbyt, Young

Professors emeriti: Adams, Becker, Borst, Casavant, DiCicco, Dietz, Lloyd, Olmstead, Perkins, Thorell, Vansteenkist, Weber

Website: www.iup.edu/music

Bachelor of Arts–Music

- [General Studies Track](#)
- [History and Literature Track](#)
- [Theory and Composition Track](#)

Bachelor of Fine Arts–Music Performance

Bachelor of Science in Education–Music Education

The Department of Music has a threefold mission: 1) professional preparation of music educators, performers, composers, conductors, and musicologists, 2) liberal studies for the university, and 3) programs, education, and resources of music for the community. Degrees offered are 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.

The program leading to the Bachelor of Arts degree with a major 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/General Studies Track, Music History/Literature, or Music Theory/Composition.

The program leading to the Bachelor of Fine Arts degree with a major in Music Performance (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 degree with a music major leads to certification to teach in the schools of Pennsylvania.

A student wishing to minor in music must elect a minimum of 15 credits in music courses as approved by the department chairperson. An audition for admission is required.

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-credit or 0-credit ensemble(s). In meeting the degree requirements of 7-8 credits of ensemble credit, enrollment in credit-bearing

ensembles is flexible across semesters.

- Students must register for [MUSC 475](#) and attend four departmental meetings and eight campus performances such as recitals, concerts, art exhibits, and theater productions each semester as required by the degree program (seven semesters for the B.S.Ed. program and eight semesters for the B.A. and B.F.A. programs).

Bachelor of Arts–Music/History and Literature Track

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Fine Arts: MUHI 102 Mathematics: MATH 101 or other Liberal Studies Mathematics Natural Science: Option II recommended, PHYS 105 Social Science: PSYC 101 Liberal Studies Electives: 6cr, MUHI 301 , no courses with MUHI prefix		50
Major:		48
Required Courses: (1)		
APMU 124	(Major) Applied Piano Jury C	0cr
MUHI 302	Music History II	3cr
MUSC 111	Theory Skills I	2cr
MUSC 112	Theory Skills II	2cr
MUSC 115	Theory I	3cr
MUSC 116	Theory II	3cr
MUSC 120-136	8 semesters of Music Ensembles	8cr
MUSC 211	Theory Skills III	2cr
MUSC 212	Theory Skills IV	2cr
MUSC 215	Theory III	3cr
MUSC 216	Theory IV	3cr
MUSC 311	Fundamentals of Conducting	2cr
MUSC 475	8 semesters of Recital Attendance	0cr
Five courses from the following: MUHI 322 , 323 , 324 , 325 , 420 , 421		15cr
Controlled Electives: Music electives (with advisor approval)		9
Free Electives:		13
Total Degree Requirements:		120
(1) Students may satisfy any Theory Class by passing the final exam prior to or at the beginning of any given semester and then enrolling in Section 011 of the course for 0cr; the student’s grade would be recorded as “Satisfactory” on the transcript.		

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Bachelor of Arts–Music/General Studies Track

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Fine Arts: MUHI 102 Mathematics: MATH 101 or other Liberal Studies Mathematics Natural Science: Option II recommended, PHYS 105 Social Science: PSYC 101 Liberal Studies Electives: 6cr, MUHI 301 , no courses with MUHI prefix		50
Major:		49
Required Courses: (1)		
APMU (Major)	Applied Music I-VIII (2cr each)	16cr
APMU 122	(Major) Applied Jury A	0cr

MUHI 302	Music History II	3cr
MUSC 111	Theory Skills I	2cr
MUSC 112	Theory Skills II	2cr
MUSC 115	Theory I	3cr
MUSC 116	Theory II	3cr
MUSC 120-136	8 semesters of Music Ensembles	8cr
MUSC 211	Theory Skills III	2cr
MUSC 212	Theory Skills IV	2cr
MUSC 215	Theory III	3cr
MUSC 216	Theory IV	3cr
MUSC 311	Fundamentals of Conducting	2cr
MUSC 475	8 semesters of Recital Attendance	0cr
Controlled Electives		5
Music Electives (with advisor approval or as indicated below):		
MUSC 217/218	Keyboard Harmony I and II (required for piano and organ majors only)	2cr
MUSC 351/ 353/354	Italian/French/German Diction and Literature (required for voice majors only)	3cr
Free Electives:		16
Total Degree Requirements:		120
(1) Students may satisfy any Theory Class by passing the final exam prior to or at the beginning of any given semester and then enrolling in Section 11 of the course for 0cr; the student's grade would be recorded as "Satisfactory" on the transcript.		

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Bachelor of Arts–Music/Theory and Composition Track

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Fine Arts: MUHI 102 Mathematics: MATH 101 or other Liberal Studies Mathematics Natural Science: Option II recommended, PHYS 105 Social Science: PSYC 101 Liberal Studies Electives: 6cr, MUHI 301, no courses with MUSC prefix		50
Major:		60
Required Courses:		
APMU	Applied Piano I-VII	14cr
MUHI 302	Music History II	3cr
MUSC 111	Theory Skills I	2cr
MUSC 112	Theory Skills II	2cr
MUSC 115	Theory I	3cr
MUSC 116	Theory II	3cr
MUSC 120-136	4 semesters of Music Ensembles	4cr
MUSC 211	Theory Skills III	2cr
MUSC 212	Theory Skills IV	2cr
MUSC 215	Theory III	3cr
MUSC 216	Theory IV	3cr
MUSC 217	Keyboard Harmony I	1cr
MUSC 218	Keyboard Harmony II	1cr
MUSC 304 or 309	Form and Analysis I or Orchestration I	
MUSC 306	Counterpoint I	2cr
MUSC 311	Fundamentals of Conducting	2cr
MUSC 315	Theory Skills V	3cr

MUSC 411	Composition I	2cr	
MUSC 412	Composition II	2cr	
MUSC 413	Composition III	2cr	
MUSC 414	Composition IV	2cr	
MUSC 475	8 semesters of Recital Attendance	0cr	
Controlled Electives			4
Music Electives (with advisor approval)			
Free Electives:			6
Total Degree Requirements:			120
(1) Students may satisfy any Theory Class by passing the final exam prior to or at the beginning of any given semester and then enrolling in Section 11 of the course for 0cr; the student's grade would be recorded as "Satisfactory" on the transcript.			

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Bachelor of Fine Arts–Music Performance

Liberal Studies: As outlined in Liberal Studies section with the following specifications:			50
Fine Arts: MUHI 102			
Mathematics: MATH 101 or other Liberal Studies Mathematics			
Natural Science: Option II recommended, PHYS 105			
Social Science: PSYC 101			
Liberal Studies Electives: 6cr, MUHI 301 , no courses with MUSC prefix			
Major:			65
Required Courses: (1)			
APMU (Major)	Applied Music I-VIII (4cr each)	32cr	
APMU 122	(Major) Applied Jury A	0cr	
MUHI 302	Music History II	3cr	
MUSC 111	Theory Skills I	2cr	
MUSC 112	Theory Skills II	2cr	
MUSC 115	Theory I	3cr	
MUSC 116	Theory II	3cr	
MUSC 120-136	8 semesters of Music Ensembles	8cr	
MUSC 211	Theory Skills III	2cr	
MUSC 212	Theory Skills IV	2cr	
MUSC 215	Theory III	3cr	
MUSC 216	Theory IV	3cr	
MUSC 311	Fundamentals of Conducting	2cr	
MUSC 475	8 semesters of Recital Attendance	0cr	
Controlled Electives			5
Music Electives (with advisor approval or as indicated below):			
MUSC 217/218	Keyboard Harmony I and II (required for piano and organ majors only)	2cr	
MUSC 351/353/354	Italian/French/German Diction and Literature (required for voice majors only)	3cr	
Total Degree Requirements:			120
(1) Students may satisfy any Theory Class by passing the final exam prior to or at the beginning of any given semester and then enrolling in Section 11 of the course for 0cr; the student's grade would be recorded as "Satisfactory" on the transcript.			

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Bachelor of Science in Education–Music Education (*)

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Fine Arts: fulfilled by courses in major Humanities: HIST 195 (section for Music majors), MUHI 102 (Music Education majors only) Mathematics: 6cr, MATH 101 or 110; MATH 217 Natural Science: Option I recommended Social Science: PSYC 101 Liberal Studies Electives: 3cr, MUHI 301, no course with MUSC prefix			48
College:			27
Professional Education Sequence:			
EDSP 102	Educational Psychology	3cr	
EDUC 242	Pre-student Teaching Clinical Experience I	1cr	
EDUC 342	Pre-student Teaching Clinical Experience II	1cr	
EDUC 421	Student Teaching Elementary Level	6cr	
EDUC 441	Student Teaching Secondary Level	6cr	
EDUC 442	School Law	1cr	
MUSC 240	Technology in the Music Classroom	2cr	
MUSC 331	Elementary Methods	2cr	
MUSC 333	Instrumental Methods	2cr	
MUSC 335	Music for Students with Disabilities in Inclusive Settings	1cr	
MUSC 337	General/Choral Methods	2cr	
Major: (1)			51
Required Courses:			
APMU (Major)	Applied Music I-VII	14cr	
APMU 122	(Major) Applied Jury A	0cr	
MUHI 302	Music History II	3cr	
MUSC 111	Theory Skills I	2cr	
MUSC 112	Theory Skills II	2cr	
MUSC 115	Theory I	3cr	
MUSC 116	Theory II	3cr	
MUSC 120-136	7 semesters of Music Ensembles	0cr	
MUSC 211	Theory Skills III	2cr	
MUSC 212	Theory Skills IV	2cr	
MUSC 215	Theory III	3cr	
MUSC 216	Theory IV	3cr	
MUSC 311	Fundamentals of Conducting	2cr	
MUSC 475	8 semesters of Recital Attendance	0cr	
Concentration area courses: (select one concentration)			
<i>Vocal Concentration</i>			
APMU	Piano (minor) I-IV	4cr	
APMU 123	Applied Piano Jury B	0cr	
Choose two of the following Class Instrument courses: MUSC 155, 157, 159, 161			2cr
MUSC 351/353/354		3cr	
<i>Instrumental Concentration</i>			
APMU 124	Applied Piano Jury C	0cr	
MUSC 151	Class Voice I	1cr	
MUSC 152	Class Voice II	1cr	
MUSC 153	Class Piano I	1cr	
MUSC 154	Class Piano II	1cr	
MUSC 155	Class Strings I	1cr	
MUSC 157	Class Percussion I	1cr	
MUSC 159	Class Brass I	1cr	
MUSC 161	Class Woodwinds I	1cr	

Controlled Electives: choose electives from the following to create a total of 51cr in Major Required Courses area:

APMU	Instrument (minor) I-IV (1cr each)	1cr	
MUSC 120	Music Ensembles (0-1cr each)	1cr	
MUSC 155-162	Class Instruments II (1cr each)	1cr	
MUSC 163	Class Guitar I	2cr	
MUSC 224	Jazz Improvisation Techniques I	2cr	
MUSC 300	Black Music in America and Diaspora	3cr	
MUSC 306	Counterpoint I	2cr	
MUSC 309	Orchestration I	2cr	
MUSC 312	Choral Conducting	2cr	
MUSC 313	Instrumental Conducting	2cr	
MUSC 315	Theory V	3cr	
MUSC 340	Woodwind Instrument Repair	2cr	
MUSC 411	Composition I	1cr	
MUSC 493	Internship in Music	1cr	
(#) Total Degree Requirements:			126
<p>(*) Also see requirements leading to teacher certification, titled "3-Step Process for Teacher Education," in the College of Education and Educational Technology section of this catalog.</p> <p>(1) Students may satisfy any Theory Class or Class Instrument/Minor Instrument requirement by</p> <p>A. Theory—Passing the final exam prior to or at the beginning of any given semester and then enrolling in Section 011 of the course for 0cr; the student’s grade would be recorded as “Satisfactory” on the transcript.</p> <p>B. Class instrument or minor applied area—Passing the B or C required jury (0cr) before enrolling in class instruments or a minor applied course; the student’s grade would be recorded as “Satisfactory” on the transcript.</p>			

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Department of Theater and Dance

Chairperson: Barbara S. Blackledge
Faculty: Ault, Boda-Sutton, Jones, Liberta, McCreary, J. Van Dyke
Professors emeriti: Eisen, Lommock

Website: www.iup.edu/theater

Bachelor of Arts–Theater

[Theater Minor](#)

[Dance Minor](#)

The Department of Theater and Dance is dedicated to both theater and dance as collaborative and highly disciplined fields offering 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 challenge 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. degree with a major in Theater provides for the study of theater within a broad liberal arts education. The minor in dance totals 18 controlled credits, while a minor in Theater consists of 15 credits in Theater 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.

Admission to the Theater major 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 and Dance is a fully accredited institutional member of the National Association of Schools of Theater (NAST).

Bachelor of Arts–Theater

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Fine Arts: ARHI 101 , DANC 102 , or MUHI 101 Mathematics: 3cr Liberal Studies Electives: 9cr, no courses with THTR prefix	53
Major:	40
Required Courses:	
THTR 111 Foundations of Theater	3cr
THTR 116 Fundamentals of Theatrical Design	3cr

THTR 205 <i>or</i> THTR 206	Classic Theater <i>or</i> Classic Theater II	3cr
THTR 207 <i>or</i> THTR 208	Modern Theater I <i>or</i> Modern Theater II	3cr
Core Courses: (minimum of 6cr from each area)		
<i>Technical Core:</i>		
THTR 120	Stagecraft	3cr
THTR 122	Costume Workshop	3cr
THTR 221	Basic Stage Lighting	3cr
<i>Performance Core:</i>		
THTR 130 <i>or</i> THTR 131	Stage Voice <i>or</i> Stage Movement	3cr
THTR 240	Acting I	3cr
THTR 350	Directing	3cr
Production Practicum: (1)		
THTR 486	Practicum in Production	4cr
Theater Concentration Electives: concentrate in one or two of the following areas:		9cr
<i>Area A: Design/Tech</i> (in addition to any of the technical core beyond the 6cr required:)		
THTR 320	Scene Design	3cr
THTR 321	Stage Lighting Design	3cr
THTR 322	Costume Design	3cr
THTR 323	Sound Design	3cr
THTR 324	Advanced Stagecraft	3cr
THTR 489	Technical Theater Problems	3cr
<i>Area B: Performance</i> (in addition to any of the performance core beyond the 6cr required:)		
THTR 340	Acting II	3cr
THTR 341	Acting Styles	3cr
THTR 342	Acting Shakespeare	3cr
THTR 484	Directing Studio	3cr
THTR 487	Acting Studio	3cr
<i>Area C: Musical Theater</i> (2)		
DANC 150	Fundamentals of Dance	3cr
DANC 250	Beginning Contemporary Dance	3cr
DANC 260	Beginning Jazz Dance	3cr
DANC 270	Beginning Ballroom and Tap Dance	3cr
DANC 280	Beginning Ballet	3cr
DANC 290	Ethnic Dance	3cr
DANC 485	Dance Studio	3cr
THTR 341	Acting Styles	3cr
THTR 487	Acting Studio	3cr
<i>Area D: Theater History and Theory</i> (3)		
THTR 310	Theater Criticism	3cr
THTR 347	Playwrighting	3cr
THTR 350	Directing	3cr
Theater Electives:		
Choose an additional course either from any THTR course listed above or any of the following: THTR 223 , 281 , 310 , 345 , 347 , 481 , 483 , 493		
Free Electives:		27
Total Degree Requirements:		120
<p>(1) 4cr over a minimum of six semesters including one semester for senior-year project.</p> <p>(2) In addition to auditioning for limited seats in applied voice lessons from the Music Department, students could choose at least one acting class and at least one dance class from the listings in this category.</p> <p>(3) In addition to taking all four of the Classic and Modern Theater courses for 6 of the 9cr required in this</p>		

concentration, an additional 3cr can be chosen from the courses in this category (assuming that they are not already serving another major requirement) or from specially defined [THTR 281/481/483](#) courses.

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Minor–Theater

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Students interested in a Theater minor must meet with the department chairperson to work out an approved list of courses to serve the intended purpose of the Theater minor.

Dance Minor

The Dance Minor program provides a foundation for those interested in teaching dance, working in administration 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-credit program with 6 required and 12 advised elective credits. The required credits include pertinent foundation courses and advanced-level theory courses. The required courses also provide a comprehensive study of production elements, fundamental and historical theories of dance, and dance choreographic and teaching theories that cannot be obtained in any of the elective courses. The advised elective credits 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 students needs, e.g., the dance teacher, the performer, and the dance studio owner.

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, theater, music, and interdisciplinary fine arts majors and anyone who has an interest in dance and wants to broaden his or her Liberal Arts education.

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Minor–Dance

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Required Courses:			6
DANC 102	Introduction to Dance	3cr	
One course from the following:			
DANC 351	Choreography	3cr	
DANC 353	Dance Curriculum and Instruction	3cr	
DANC 355	Dance Production: Administration to Creation	3cr	
Four courses from the following as advised:			12
DANC 150	Fundamentals of Dance	3cr	
DANC 250	Beginning Contemporary Dance	3cr	
DANC 260	Beginning Jazz Dance	3cr	
DANC 270	Beginning Ballroom and Tap Dance	3cr	
DANC 280	Beginning Ballet	3cr	
DANC 290	Ethnic Dance	3cr	
DANC 485	Dance Studio	3cr	

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Music (MUSC)

Department of Music
College of Fine Arts

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

MUSC 110 Fundamentals of Theory	MUSC 216 Theory IV
MUSC 111 Theory Skills I	MUSC 217 Keyboard Harmony I
MUSC 112 Theory Skills II	MUSC 218 Keyboard Harmony II
MUSC 115 Theory I	MUSC 224 Jazz Improvisation Techniques I
MUSC 116 Theory II	MUSC 225 Jazz Improvisation Techniques II
MUSC 120 Brass Ensemble	MUSC 240 Technology in the Music Classroom
MUSC 121 Chamber Singers	MUSC 281 Special Topics
MUSC 122 University Chorale	MUSC 300 Black Music in America and Diaspora
MUSC 123 Symphony Band	MUSC 304 Form and Analysis I
<u>MUSC 124 Concert Band</u>	MUSC 306 Counterpoint I
MUSC 125 Marching Band	MUSC 309 Orchestration I
MUSC 126 Music Theater	MUSC 311 Fundamentals of Conducting
MUSC 127 Percussion Ensemble	MUSC 312 Choral Conducting
MUSC 129 University Symphony Orchestra	MUSC 313 Instrumental Conducting
MUSC 130 String Ensemble	MUSC 315 Theory Skills V
MUSC 131 University Wind Ensemble	MUSC 331 Elementary Methods
MUSC 132 Men's or Women's Chorus	MUSC 333 Instrumental Methods
MUSC 133 Woodwind Ensemble	MUSC 335 Music for Students with Disabilities in Inclusive Settings
MUSC 134 University Chorus	MUSC 337 General/Choral Methods
MUSC 135 Jazz Ensemble	MUSC 340 Woodwind Instrument Repair
MUSC 136 Advanced Jazz Ensemble	MUSC 351 Italian Diction and Literature
MUSC 137 Piano Accompanying	MUSC 353 French Diction and Literature
MUSC 151 Class Voice I	MUSC 354 German Diction and Literature
MUSC 152 Class Voice II	MUSC 405 Piano Pedagogy
MUSC 153 Class Piano I	MUSC 406 Voice Pedagogy
MUSC 154 Class Piano II	MUSC 408 Marching Band Techniques
MUSC 155 Class Strings I	MUSC 411 Composition I
MUSC 157 Class Percussion I	MUSC 412 Composition II
MUSC 159 Class Brass I	MUSC 413 Composition III
MUSC 161 Class Woodwinds I	MUSC 414 Composition IV
MUSC 163 Class Guitar I	MUSC 475 Music Lab
MUSC 211 Theory Skills III	MUSC 481 Special Topics

[MUSC 212 Theory Skills IV](#)

[MUSC 482 Independent Study](#)

[MUSC 215 Theory III](#)

[MUSC 493 Internship in Music](#)

MUSC 110 Fundamentals of Theory

3c-01-3cr

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-31-2cr

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-31-2cr

Prerequisite: [MUSC 111](#) with a grade of C or better or Satisfactory

Continues development of aural skills through dictation, sight-singing, keyboard skills, and improvisation. Taken in conjunction with Theory II.

MUSC 115 Theory I

3c-01-3cr

The study of the harmonic, melodic, and formal devices of the common practice period, from simple diatonic chords through seventh chords.

MUSC 116 Theory II

3c-01-3cr

Prerequisite: [MUSC 115](#)

The study of the harmonic, melodic, and formal devices of the common practice period, from simple diatonic chords through secondary dominants. Introduces basic music forms.

MUSC 120 Brass Ensemble

0c-21-0/1cr

MUSC 121 Chamber Singers

0c-31-0/1cr

MUSC 122 University Chorale

0c-31-0/1cr

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MUSC 123 Symphony Band

0c-31-0/1cr

MUSC 124 Concert Band

0c-31-0/1cr

Provides a large ensemble experience for woodwind, brass, and percussion performers.

MUSC 125 Marching Band

0c-61-0/1cr

MUSC 126 Music Theater

0c-61-0/1cr

MUSC 127 Percussion Ensemble

0c-41-0/1cr

MUSC 129 University Symphony Orchestra

0c-51-0/1cr

MUSC 130 String Ensemble

0c-21-0/1cr

MUSC 131 University Wind Ensemble

0c-31-0/1cr

MUSC 132 Men's or Women's Chorus

0c-31-0/1cr

MUSC 133 Woodwind Ensemble

0c-21-0/1cr

MUSC 134 University Chorus

0c-31-0/1cr

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MUSC 135 Jazz Ensemble

0c-31-0/1cr

MUSC 136 Advanced Jazz Ensemble

0c-31-0/1cr

MUSC 137 Piano Accompanying

var-1-1 or 0cr

Piano accompanying may be scheduled by qualified (successful audition) pianists from the Music Department in partial fulfillment of ensemble requirements. May be repeated for credit. Pianists registered for this course will provide accompaniments for Music Department 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 Music Department faculty member from the piano area.

MUSC 151 Class Voice I

1c-11-1cr

For non-Voice and Music Education 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-11-1cr

A continuation of Class Voice I. Resumes development of correct vocal production techniques through performance.

MUSC 153 Class Piano I

1c-11-1cr

For students with no significant background in piano who need to develop functional keyboard skills. Emphasizes harmonizing melodies and playing simple accompaniments.

MUSC 154 Class Piano II

1c-11-1cr

A continuation of Class Piano I.

MUSC 155 Class Strings I

1c-11-1cr

For Music Education majors who will develop rudimentary playing techniques sufficient to initiate instruction for beginning students. Emphasizes correct playing positions and tone production for violin, viola, cello, and double bass.

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MUSC 157 Class Percussion I

1c-11-1cr

A practical introduction to the various instruments of the percussion family. Students demonstrate correct playing techniques and develop a resource file containing information on percussion instruments and instructional materials as needed by the school music teacher.

MUSC 159 Class Brass I

1c-11-1cr

For Music Education majors who will demonstrate rudimentary playing techniques and tone production skills to initiate beginning instruction. Students develop playing on trumpet or French horn and trombone, euphonium, or tuba.

MUSC 161 Class Woodwinds I

1c-11-1cr

For Music Education majors who will acquire correct tone production and playing techniques sufficient to initiate beginning instruction. Students demonstrate skills with flute, clarinet, saxophone, and oboe or bassoon.

MUSC 163 Class Guitar I

1c-11-1cr

For students with no significant background in guitar who wish to develop functional playing skills. Emphasizes using the guitar as an accompanying instrument.

MUSC 211 Theory Skills III

0c-31-2cr

Prerequisite: [MUSC 112](#) with a grade of C or better or Satisfactory

Further development of aural skills through dictation, sight singing, keyboard skills, and improvisation. Taken in conjunction with Theory III.

MUSC 212 Theory Skills IV

0c-31-2cr

Prerequisites: [MUSC 211](#) and [154](#) or [APMU 151](#), with a grade of C or better or Satisfactory

Culmination of the development of aural and keyboard skills including sight-reading, performance, and improvisation. Taken in conjunction with Theory IV.

MUSC 215 Theory III

3c-01-3cr

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-01-3cr

Prerequisites: [MUSC 115](#), [116](#), [215](#)

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-11-1cr

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-11-1cr

Prerequisite: [MUSC 217](#)

A continuation of Keyboard Harmony I, involving chromatic harmony and more complex progressions.

MUSC 224 Jazz Improvisation Techniques I

1c-.5l-1cr

A study of the basic materials and practices for improvising or extemporaneous playing.

MUSC 225 Jazz Improvisation Techniques II

1c-0.5l-1cr

Prerequisite: [MUSC 224](#) or permission

A continuation of the basic materials and practices for improvising or extemporaneous playing. Makes use of more complicated and involved harmonic progressions utilizing extended chordal harmonies.

MUSC 240 Technology in the Music Classroom

2c-11-2cr

Introduces the technology resources available for use in the music classroom and with instructional technologies appropriate to their application in K-12 settings. Exposes a variety of media and provides the opportunity to gain familiarity in their use. Emphasizes the use of the computer in the classroom, computer-based instrument, and Musical Instrument Digital Interface (MIDI).

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MUSC 281 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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.

MUSC 300 Black Music in America and Diaspora

3c-01-3cr

Provides a survey of the body (roots) of music known as “black music” through a topical examination of selected styles, genres, and musicians. Through lecture, reading, discussion, videography, and discography, its historical, sociopolitical, philosophical, religious influences, and musical developments will also be explored. Examine the origins of African music as well as music created in cultures of the Black Diaspora.

MUSC 304 Form and Analysis I

2c-01-2cr

Prerequisite: [MUSC 216](#)

A thorough study of smaller forms of music.

MUSC 306 Counterpoint I

2c-01-2cr

Prerequisite: [MUSC 216](#)

After study and analysis of the style of sixteenth-century contrapuntal writing, the student will do original writing using techniques and devices of period. As time permits, the same approach is made to explore style of seventeenth- and eighteenth-century composers.

MUSC 309 Orchestration I

2c-01-2cr

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.

MUSC 311 Fundamentals of Conducting

3c-01-2cr

Emphasizes fundamental physical skills of conducting process; various beat patterns are mastered and elementary score reading and interpretation are considered.

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MUSC 312 Choral Conducting

3c-01-2cr

Prerequisite: [MUSC 311](#)

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.

MUSC 313 Instrumental Conducting

3c-01-2cr

Prerequisite: [MUSC 311](#)

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.

MUSC 315 Theory V

3c-01-3cr

Prerequisite: [MUSC 216](#)

Many harmonic idioms of past half-century are considered, such as comparative analysis of dissonance; polytonality, polyrhythms; atonalism and 12-tone system; and microtonalism. Original writing in these styles required.

MUSC 331 Elementary Methods

2c-11-2cr

Prerequisite: [MUSC 212](#)

Familiarizes students with contemporary music education methods for the elementary general music classroom. Includes teaching and learning strategies for developing singing, moving, listening, creating, and playing classroom percussion, recorders, and guitar. Specific focus on child development, characteristics of special learners, curriculum planning, and diverse musical materials. Includes three classroom observations in the field.

MUSC 333 Instrumental Methods

2c-11-2cr

Prerequisite: [MUSC 212](#)

Familiarizes students with the instrumental music teaching process including traditional and innovative methodology; development of beliefs and values; communication, motivation, and reinforcement; curriculum development, planning, modeling, sequencing, and assessment; recruiting and retention; teaching techniques for rehearsals for the art of lesson giving and for confronting the main issues of rhythm and intonation; development of aural/visual discrimination skills; improvisation; aptitude tests and testing; classroom control; literature; and equipment.

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MUSC 335 Music for Students with Disabilities in Inclusive Settings

1c-11-1cr

Prerequisites: Admission to teacher certification

Corequisite: [EDUC 242](#) Section 52

Develops music education skills, techniques, and materials for students with disabilities and special needs within the music classroom setting. Legal rights of students with special needs are stressed with regard to opportunities to participate in music activities and ensembles. Must be elected concurrently with [EDUC 242](#). Includes field experiences in the music classroom during the [EDUC 242](#) observation period.

MUSC 337 General/Choral Methods

2c-11-2cr

Prerequisite: [MUSC 212](#)

A pedagogical overview of music methods related to general and choral music curricula for the middle school, junior high, and high school. Emphasizes the complex factors of adolescent behavior and physiology, administrative issues, performance expectations, and conceptually based learning which influence music teaching at this level.

MUSC 340 Woodwind Instrument Repair

0c-21-2cr

Prerequisites: [MUSC 133](#), teacher certification

For students preparing for teaching careers in instrumental music. Instruction is conducted in a laboratory setting and includes 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.

MUSC 351 Italian Diction and Literature

1c-11-1cr

A laboratory course in Italian diction for first-semester voice majors. Meets for two hours per week. Emphasizes pronunciation for the stage and the International Phonetic Alphabet. Students demonstrate skills by singing Italian solo song literature and operatic repertoire of the seventeenth and eighteenth centuries.

MUSC 353 French Diction and Literature

1c-11-1cr

A laboratory course in French diction for third- or fourth-semester voice majors. Meets for two hours per week. Emphasizes pronunciation for the stage and the International Phonetic Alphabet. Demonstrate skills by singing French solo song literature and operatic repertoire.

MUSC 354 German Diction and Literature

1c-11-1cr

A laboratory course in German diction for second-semester voice majors. Meets for two hours per week. Emphasizes pronunciation for the stage and the International Phonetic Alphabet. Demonstrate skills by singing German solo and song literature and operatic repertoire.

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MUSC 405 Piano Pedagogy

3c-01-3cr

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-01-3cr

Prerequisites: A voice major or minor and instructor permission

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-01-2cr

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.

MUSC 411 Composition I

2c-01-2cr

Prerequisite: [MUSC 216](#)

Instruction is individualized. Compositional devices studied through analysis of works by major composers. Students write several original compositions utilizing smaller forms.

MUSC 412 Composition II

2c-01-2cr

Prerequisite: [MUSC 411](#)

A continuation of Composition I.

MUSC 413 Composition III

2c-01-2cr

Prerequisite: [MUSC 412](#)

Students write several original compositions utilizing larger forms.

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MUSC 414 Composition IV

2c-01-2cr

Prerequisite: [MUSC 413](#)

A continuation of Composition III. Outstanding works are programmed by university performing ensembles.

MUSC 475 Music Lab

var-0cr

All music majors must attend eight on-campus (unless preapproved) recitals and meetings per semester and all departmental recitals, as well as all recitals for their respective performance areas.

MUSC 481 Special Topics

3c-01-3cr

Prerequisite: As appropriate to course content

May provide an in-depth study of a narrowly defined area of the discipline. Subject matter changes with repeated offering of the course. May be repeated for credit.

MUSC 482 Independent Study

var-1-6cr

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

MUSC 493 Internship in Music

var-1-6cr

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 (APMU)

Department of Music
College of Fine Arts

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

APMU Applied Music (Major Area) Instrument/Voice I-VIII
APMU Applied Music (Minor Area) Instrument Voice I-IV
APMU 101, 151, 201, 251, 301, 351, 401, 451 Piano I-VIII
APMU 102, 152, 202, 252, 302, 352, 402, 452 Organ I-VIII
APMU 103, 153, 203, 253, 303, 353, 403, 453 Harpsichord I-VIII
APMU 104, 154, 204, 254, 304, 354, 404, 454 Harp I-VIII
APMU 105, 155, 205, 255, 305, 355, 405, 455 Voice I-VIII
APMU 106, 156, 206, 256, 306, 356, 406, 456 Violin I-VIII
APMU 107, 157, 207, 257, 307, 357, 407, 457 Viola I-VIII
APMU 108, 158, 208, 258, 308, 358, 408, 458 Cello I-VIII
APMU 109, 159, 209, 259, 309, 359, 409, 459 String Bass I-VIII
APMU 110, 160, 210, 260, 310, 360, 410, 460 Flute I-VIII
APMU 111, 161, 211, 261, 311, 361, 411, 461 Clarinet I-VIII
APMU 113, 163, 213, 263, 313, 363, 413, 463 Bassoon I-VIII
APMU 112, 162, 212, 262, 312, 362, 412, 462 Oboe I-VIII
APMU 114, 164, 214, 264, 314, 364, 414, 464 Saxophone I-VIII
APMU 115, 165, 215, 265, 315, 365, 415, 465 Trumpet I-VIII
APMU 116, 166, 216, 266, 316, 366, 416, 466 French Horn I-VIII
APMU 117, 167, 217, 267, 317, 367, 417, 467 Trombone I-VIII
APMU 118, 168, 218, 268, 318, 368, 418, 468 Euphonium I-VIII
APMU 119, 169, 219, 269, 319, 369, 419, 469 Tuba I-VIII
APMU 120, 170, 220, 270, 320, 370, 420, 470 Percusison I-VIII
APMU 121, 171, 221, 271, 321, 371, 421, 471 Guitar I-VIII
APMU 122 Applied Jury A
APMU 123 Applied Jury B
APMU 124 Applied Jury C
APMU 482 Independent Study

APMU Applied Music (Major Area) Instrument/Voice I-VIII

var-2 or 4cr

Prerequisite for initial semester of study: Audition and acceptance to the area of concentration

Prerequisite for subsequent semesters: Grade of C or better in the previous semester of study

Private instrumental or vocal instruction for music majors in their primary area of concentration for up to eight semesters. Includes technical studies, musical repertoire, and performance experiences at the professional level. Weekly half-hour lessons are given (2cr) for students enrolled in

the B.S. and B.A. degree programs. Weekly one-hour lessons (4cr) are given for students enrolled in the B.F.A. degree program only.

APMU Applied Music (Minor Area) Instrument/Voice I-IV

var-1 cr

Prerequisite for initial semester of study: Audition and placement

Prerequisite for subsequent semesters: Grade of C or better in the previous semester of study

Private instrumental or vocal instruction for music minors, or for music majors in their secondary or tertiary area of concentration for up to four semesters. Includes technical studies, musical repertoire, and performance experiences at a functional level. Students enroll for 1 credit and are given weekly half-hour lessons. Students may enroll in Levels I-IV only from the list below.

APMU 101, 151, 201, 251, 301, 351, 401, 451 Piano I-VIII

APMU 102, 152, 202, 252, 302, 352, 402, 452 Organ I-VIII

APMU 103, 153, 203, 253, 303, 353, 403, 453 Harpsichord I-VIII

APMU 104, 154, 204, 254, 304, 354, 404, 454 Harp I-VIII

APMU 105, 155, 205, 255, 305, 355, 405, 455 Voice I-VIII

APMU 106, 156, 206, 256, 306, 356, 406, 456 Violin I-VIII

APMU 107, 157, 207, 257, 307, 357, 407, 457 Viola I-VIII

APMU 108, 158, 208, 258, 308, 358, 408, 458 Cello I-VIII

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APMU 109, 159, 209, 259, 309, 359, 409, 459 String Bass I-VIII

APMU 110, 160, 210, 260, 310, 360, 410, 460 Flute I-VIII

APMU 111, 161, 211, 261, 311, 361, 411, 461 Clarinet I-VIII

APMU 112, 162, 212, 262, 312, 362, 412, 462 Oboe I-VIII

APMU 113, 163, 213, 263, 313, 363, 413, 463 Bassoon I-VIII

APMU 114, 164, 214, 264, 314, 364, 414, 464 Saxophone I-VIII

APMU 115, 165, 215, 265, 315, 365, 415, 465 Trumpet I-VIII

APMU 116, 166, 216, 266, 316, 366, 416, 466 French Horn I-VIII

APMU 117, 167, 217, 267, 317, 367, 417, 467 Trombone I-VIII

APMU 118, 168, 218, 268, 318, 368, 418, 468 Euphonium I-VIII

APMU 119, 169, 219, 269, 319, 369, 419, 469 Tuba I-VIII

APMU 120, 170, 220, 270, 320, 370, 420, 470 Percussion I-VIII

APMU 121, 171, 221, 271, 321, 371, 421, 471 Guitar I-VIII

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APMU 122 Applied Jury A

0c-01-0cr

Prerequisite: [APMU Applied Music \(Major Area\)](#)—all required levels

Adjudicates the performance of students in their respective major performance area (on a “Pass” or “Fail” basis) as partial fulfillment of the

graduation requirements in the B.S.Ed.–Music and B.F.A.–Music degrees. Students are expected to attain a professional level of performance on all of their required major area juries in order to receive a passing grade.

APMU 123 Applied Jury B

0c-01-0cr

Prerequisite: [APMU Applied Music \(Major Area\)](#)—all required levels

Adjudicates the performance of students in their respective major performance area (on a “Pass” or “Fail” basis) as partial fulfillment of the graduation requirements in the B.S.Ed.–Music degree. Students are expected to attain a functional level of performance on all of their required minor area juries in order to receive a passing grade.

APMU 124 Applied Jury C

0c-01-0cr

Prerequisite: [MUSC Class Piano](#) I and II or [APMU Applied Music \(Minor\)](#) I and II

Adjudicates the performance of students in their respective major performance area (on a “Pass” or “Fail” basis) as partial fulfillment of the graduation requirements in the B.S.Ed.–Music degree program. Students are expected to attain a fundamental level of proficiency on piano as indicated by passing the Piano C Jury.

APMU 482 Independent Study

var-1-3cr

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and Provost’s Office

Students with interest in an 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)–(ART)

Department of Art
College of Fine Arts

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

ART 111 Figure Drawing	ART 356 Intermediate Graphic Design II
ART 112 Fundamentals of Drawing	ART 400 Professional Practicum
ART 113 Three-Dimensional Design	ART 421 Advanced Drawing
ART 114 Color and Two-Dimensional Design	ART 451 Advanced Woodworking: Function and Form
ART 120 Principles of Design	ART 452 Advanced Ceramics
ART 211 Painting	ART 453 Advanced Sculpture
ART 213 Woodworking: Function and Form	ART 454 Advanced Painting
ART 214 Ceramics	ART 455 Advanced Graphic Design I
ART 215 Sculpture	ART 456 Advanced Graphic Design II
ART 216 Jewelry and Metals	ART 457 Advanced Print Media
ART 217 Print Media	ART 459 Advanced Fibers
ART 218 Introduction Graphic Design	ART 460 Advanced Jewelry and Metals
ART 219 Fibers	ART 481 Special Topics
ART 281 Special Topics	ART 482 Independent Study
ART 316 Intermediate Jewelry and Metals	ART 493 Internship
ART 355 Intermediate Graphic Design I	

ART 111 Figure Drawing

0c-6l-3cr
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-3cr
Seeks to integrate basic principles and fundamentals of drawing and design.

ART 113 Three-Dimensional Design

0c-6l-3cr
Basic elements and principles of design are studied. A course in design in three dimensions.

ART 114 Color and Two-Dimensional Design

0c-6l-3cr
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-4l-2cr

Principles of design and color are studied and applied to a crafted object. Major emphasis on aesthetic quality inherent in designing with materials.

ART 211 Painting

0c-6l-3cr

An introduction to painting in which a variety of materials, techniques, and approaches are explored.

ART 213 Woodworking: Function and Form

0c-6l-3cr

Involves the study of woodworking and furniture design as it relates to the individual designer-artist. Students experience a formal background in both woodworking technique and the application of design.

ART 214 Ceramics

0c-6l-3cr

A general introduction to the techniques and aesthetics of clay. The student works both at the wheel and with hand building methods.

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ART 215 Sculpture

0c-6l-3cr

An introduction to sculpture with an emphasis on study of form as well as visualizing in the third dimension.

ART 216 Jewelry and Metals

0c-6l-3cr

Prerequisite: ART 113 or instructor permission

An introduction to jewelry and metals with an emphasis upon the design and creation of functional and non-functional art objects. Basic processes of metal fabrication will be the focus. (Titled Metals prior to 2006-07)

ART 217 Print Media

0c-6l-3cr

An introduction to basic techniques of print media including planographic, relief, and electronic processes.

ART 218 Introduction to Graphic Design

0c-6l-3cr

Prerequisites: [ART 112](#), [114](#)

A survey of graphic design, exploring creative problem-solving techniques. Introduces the importance of concept development, aesthetics, symbolism, typography, and computer method. Studio experience provides a wide range of experiences for the beginning graphic design student. Projects, problems, and exercises will deal with skills, principles, application, and theory.

ART 219 Fibers

0c-6l-3cr

Provides an 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, are available for exploration as desired.

ART 281 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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 316 Intermediate Jewelry and Metals

0c-6l-3cr

Prerequisite: [ART 216](#)

Technical expertise will be further developed during the course, gradually shifting from formal techniques to experimentation and individual expression. Various techniques, including casting, stone setting, and an introduction to smithing will be explored.

ART 355 Intermediate Graphic Design I

0c-6l-3cr

Prerequisite: [ART 218](#)

An intermediate-level study in graphic design focusing on digital illustration, complex typography, and publication design. Studio experience will focus on current professional 2-D digital illustration software.

ART 356 Intermediate Graphic Design II

0c-6l-3cr

Prerequisite: [ART 218](#)

Recommended **Prerequisite:** [ART 355](#)

An intermediate-level study in graphic design, researching publication design, grid systems, and multipage design. Studio experience will focus on current professional software used for publication design.

ART 400 Professional Practicum

3c-0l-3cr

Prerequisites: B.F.A. or B.A. Studio majors only, senior status

Professional practices for the visual artist. Major issues may include the development of a thesis exhibition, resume development, an artist's professional image, portfolio development, marketing skills, career opportunities, and grant writing. (Titled Senior Thesis and Professional Practicum prior to 2006-07)

ART 421 Advanced Drawing

0c-6l-3cr

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-3cr

Prerequisite: [ART 213](#)

Offers advanced training and skills involving the study of contemporary furniture design and woodworking. Emphasizes a technical and aesthetic point of view.

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ART 452 Advanced Ceramics

0c-6l-3cr

Prerequisite: [ART 214](#)

Continued exploration of the field of ceramic production, along with kiln firing and glaze formulation.

ART 453 Advanced Sculpture

0c-6l-3cr

Prerequisite: [ART 215](#)

Provides an opportunity to pursue independent study in sculpture. Materials and processes are individually chosen and the work related to broadening concepts.

ART 454 Advanced Painting

0c-6l-3cr

Prerequisite: [ART 211](#)

Individual experimentation and exploration by the painter and investigation of the various technical approaches.

ART 455 Advanced Graphic Design I

var-3, 6cr

Prerequisites: [ART 218](#), [355](#); instructor permission is required for 6cr studio

Recommended Prerequisite: [ART 356](#)

Introduces three-dimensional modeling and rendering for illustration and animation. Studio experience will focus on current professional 3-D software.

ART 456 Advanced Graphic Design II

var-3, 6cr

Prerequisites: [ART 218](#), [355](#); instructor permission is required for 6cr studio

Recommended Prerequisites: [ART 356](#), [455](#)

An exploration of web page and interactive design. Studio experience will focus on current professional web and interactive software.

ART 457 Advanced Print Media

var-3, 6cr

Prerequisite: [ART 217](#), permission is required for 6cr studio

Student elects to study a print media process or processes in greater depth and works toward developing personal visual language and techniques ranging from the traditional to the nontraditional.

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ART 459 Advanced Fibers

0c-6l-3cr

Prerequisite: [ART 219](#)

Provides a working knowledge in design and execution of projects in weaving and related areas. Other fiber techniques, including handmade paper, are available for the students to explore as desired.

ART 460 Advanced Jewelry and Metals

0c-6l-3cr

Prerequisite: [ART 216](#) or permission

Technical expertise will be further developed to challenge each individual to understand the relationship of concept to the completed object whether it is jewelry, holloware, or a nonfunctional object. Various techniques will be investigated in pursuit of a personal expression and aesthetic. May be repeated for credit. (Titled Advanced Metals prior to 2006-07)

ART 481 Special Topics

var-1-3cr

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-1-3cr

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-3-12cr

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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Fashion Merchandising (FSMR)

Department of Human Development and Environmental Studies
College of Health and Human Services

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

FSMR 110 Introduction to Fashion	FSMR 360 Apparel Industry II
FSMR 112 Fundamentals of Clothing Construction	FSMR 385 Ready-to-Wear Analysis
FSMR 212 Advanced Clothing Construction	FSMR 433 Study Tour
FSMR 252 Aesthetics of Fashion	FSMR 434 Quality Control in Textiles
FSMR 281 Special Topics	FSMR 453 Flat Pattern Design
FSMR 303 Visual Merchandising	FSMR 456 Historic Costume
FSMR 314 Textiles	FSMR 480 Seminar in Fashion Merchandising
FSMR 350 Apparel Industry I	FSMR 481 Special Topics
FSMR 356 Historic Textiles	FSMR 482 Independent Study
FSMR 357 Global Issues in Textiles and Apparel	

FSMR 110 Introduction to Fashion

3c-0l-3cr

A survey of aesthetic, cultural, sociopsychological, and economic factors related to the meaning and use of clothing for the individual and society.

FSMR 112 Fundamentals of Clothing Construction

1c-3l-3cr

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.

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FSMR 212 Advanced Clothing Construction

1c-3l-3cr

Prerequisite: [FSMR 112](#) or placement (by exam)

Principles of advanced fitting and clothing construction are applied and analyzed. Offered even years, Fall semester.

FSMR 252 Aesthetics of Fashion

1c-0l-3cr

Prerequisite: Sophomore standing

The study of contemporary apparel design and the relationship of design elements and principles to personal characteristics and social/professional orientation.

FSMR 281 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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.

FSMR 303 Visual Merchandising

3c-0l-3cr

Design and arrange display and selling areas in relationship to merchandising trends and consumer demands. Emphasizes promotion techniques and merchandise sales through effective use of space, design, and color.

FSMR 314 Textiles

3c-0l-3cr

Prerequisites: [CHEM 101](#) and [102](#) of [SCI 105](#) and [106](#)

An interpretation of basic textile knowledge with emphasis on fiber, yarn, fabric structure, coloration, and fabric finishes. Discussions include importance of factors related to consumer information, protection, and satisfaction.

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FSMR 350 Apparel Industry I

3c-0l-3cr

Prerequisites: [FSMR 110](#), completion of 57cr

Introduces 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.

FSMR 356 Historic Textiles

3c-0l-3cr

A study of the development of textiles from ancient times to present day with special emphasis on techniques used in constructing historic textiles. (Offered as FSMR 457 prior to 2002-03)

FSMR 357 Global Issues in Textiles and Apparel

3c-0l-3cr

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 360 Apparel Industry II

3c-0l-3cr

Prerequisites: [FSMR 350](#) and Liberal Studies math requirements

Introduces 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 FSMR 450 prior to 2002-03)

FSMR 385 Ready-to-Wear Analysis

1c-3l-3cr

Prerequisites: [FSMR 112](#), [350](#)

An examination and evaluation of the quality of ready-to-wear apparel through construction, style, fit, marketability, and price.

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FSMR 433 Study Tour

var-1-6cr

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. May be repeated for a total of 6cr. (Cross-listed as [CNSV/INDS 433](#).)

FSMR 434 Quality Control in Textiles

2c-2l-3cr

Prerequisite: [FSMR 314](#)

Physical properties explored through microscopic examination and use of textile testing equipment for fabric analysis.

FSMR 453 Flat Pattern Design

1c-3l-3cr

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.

FSMR 456 Historic Costume

3c-01-3cr

A 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.

FSMR 480 Seminar in Fashion Merchandising

3c-01-3cr

Prerequisite: Senior standing

Knowledge gained in major and additional requirement courses is applied to individual career goals. Will have the opportunity to pursue related areas not directly covered in previous coursework, with emphasis upon independent research, analytical thinking, and communication skills.

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FSMR 481 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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.

FSMR 482 Independent Study

var-1-3cr

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 3cr. Students meet with a faculty member at least 5 hours per credit.

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Department of Criminology

Chairperson: Dennis M. Giever
Faculty: Austin, Hwang, Frenzel, Gibbs, Gido, Gilliam, Gossett, Hanrahan, Lee, J. Martin, R. Martin, McCauley, Merlo, Mutchnick, Myers, Pearlman, Roberts
Professor emerita: Moyer

Website: www.iup.edu/criminology

Bachelor of Arts–Criminology
Bachelor of Arts–Criminology/Pre-Law Track
Criminal Justice Training Center
Minor–Criminology
Minor–Information Assurance

The Department of Criminology offers students seeking careers in criminology a broad liberal arts education that encourages them to think critically about crime and justice issues and also prepares them for careers in the criminal justice system. The degrees offered are the Bachelor of Arts with a major in Criminology and the Bachelor of Arts with a major in Criminology Pre-Law track. Additionally, students may minor in Criminology. Through the School of Graduate Studies and Research, the department also offers graduate work at both the master's and doctoral levels.

The program in Criminology has a fivefold 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. For example, employment opportunities normally exist in more than fifty federal agencies (e.g., Federal Bureau of Investigation, U.S. Department of Treasury, Federal Bureau of Prisons). Graduates also will find employment in local and state organizations including law enforcement (e.g., Pennsylvania State Police, various municipal police departments) and correctional agencies (e.g., probation, parole, Pennsylvania Department of Corrections). Additionally, there are a wide variety of opportunities in the expanding fields of private, commercial, and industrial security, including cybersecurity. Furthermore, many governmental agencies have specialized units dealing with juveniles, community relations, training, education, and research.

Career opportunities also are available in research and teaching at the college and university levels and in research divisions of various agencies.

Students who wish to change their major to Criminology or Criminology/Pre-Law track, or to minor in Criminology, must have a cumulative GPA of 2.5 at the time of application to be accepted formally by the department.

Criminal Justice Training Center (CJTC)

The CJTC provides high-quality education and training programs for the continuing professionalism of the criminal justice system. The CJTC is one of only seventeen schools in the commonwealth certified to offer Act 120 training, which is a 750-hour program that qualifies graduates to be

municipal police officers. The police academy is located at the main campus at IUP and various satellite locations. The center also offers programs for in-service personnel in fulfillment of annual mandatory continuing education requirements and nonmandatory courses such as Basic and Advanced Accident Investigation, Perceptual Driving, and Instructor Development. Lethal Weapons Training, Act 235, provides the basic requirements and mandatory recertification for armed security personnel. Visit the website www.iup.edu/crimjustice for more information.

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Bachelor of Arts–Criminology

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 217 Natural Sciences: CHEM 111-112 or BIOL 103-104 recommended Social Science: CRIM 101 Liberal Studies Electives: 6cr, no courses with CRIM prefix	51
Major:	39
Required Courses:	
CRIM 102 Survey of Criminology	3cr
CRIM 306 Criminological Research Methods	3cr
CRIM 400 Theoretical Criminology	3cr
CRIM 401 Contemporary Issues in Criminology	3cr
CRIM 403 Dilemmas in Criminology and Criminal Justice	3cr
Controlled Electives:	
Two CRIM electives (1)	6cr
Select two courses from each group:	
<i>Group A: The Criminal Justice System</i>	6cr
CRIM 205 Law Enforcement and the Community	
CRIM 215 Survey of Courts and the Criminal Justice System	
CRIM 225 Survey of Corrections	
CRIM 235 Survey of Juvenile Justice and Juvenile Law	
CRIM 255 Law, Social Control, and Society	
<i>Group B: Critical Issues in Criminology</i>	6cr
CRIM 354 White Collar Crime	
CRIM 374 Environmental Crime and Justice	
CRIM 384 Violence and Victimology	
CRIM 394 Crime and Delinquency Prevention	
<i>Group C: Diversity Issues in Criminology</i>	6cr
CRIM 410 Race, Ethnicity, Social Structure, and Crime	
CRIM 450 Women and Crime	
CRIM 470 Comparative Study of Justice	
Minor/Concentration:	15-21
Free Electives:	9-15
Total Degree Requirements:	120
(1) No more than 6cr of CRIM 493 may be applied to 39cr minimum in major.	

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Bachelor of Arts–Criminology/Pre-Law Track

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 217 Natural Sciences: CHEM 111-112 or BIOL 103-104 recommended Social Science: CRIM 101 Liberal Studies Electives: 6cr, no courses with CRIM prefix	51
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Major:		39
Required Courses:		
CRIM 102	Survey of Criminology	3cr
CRIM 306	Criminological Research Methods	3cr
CRIM 400	Theoretical Criminology	3cr
CRIM 401	Contemporary Issues in Criminology	3cr
CRIM 403	Dilemmas in Criminology and Criminal Justice	3cr
Controlled Electives:		
Two CRIM electives (1)		6cr
Select two courses from each group:		
<i>Group A: The Criminal Justice System</i>		6cr
CRIM 205	Law Enforcement and the Community	
CRIM 215	Survey of Courts and the Criminal Justice System	
CRIM 225	Survey of Corrections	
CRIM 235	Survey of Juvenile Justice and Juvenile Law	
CRIM 255	Law, Social Control, and Society	
<i>Group B: Critical Issues in Criminology</i>		6cr
CRIM 354	White Collar Crime	
CRIM 374	Environmental Crime and Justice	
CRIM 384	Violence and Victimology	
CRIM 394	Crime and Delinquency Prevention	
<i>Group C: Diversity Issues in Criminology</i>		6cr
CRIM 410	Race, Ethnicity, Social Structure, and Crime	
CRIM 450	Women and Crime	
CRIM 470	Comparative Study of Justice	
Other Requirements: Pre-Law interdisciplinary track		15-21
Seven courses, including at least one from each of six areas:		
<i>Business:</i> ACCT 201, ACCT 202, BLAW 235		
<i>Economics:</i> ECON 121, 122, 332		
<i>English:</i> ENGL 212, 220, 310		
<i>History:</i> HIST 320, 321, 346		
<i>Philosophy:</i> PHIL 101, 222, 450		
<i>Political Science:</i> PLSC 358, 359, 361		
Free Electives:		9-15
Total Degree Requirements:		120
(1) No more than 6cr of CRIM 493 may be applied to 39cr minimum in major.		

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Minor–Criminology (1, 2)

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Required Courses:		
CRIM 101	Crime and Justice Systems (3)	3cr
CRIM 102	Survey of Criminology	3cr
CRIM 401	Contemporary Issues in Criminology	3cr
CRIM 403	Dilemmas in Criminology and Criminal Justice	3cr
Two additional CRIM electives, one chosen from Controlled Electives Group B and one from Group C. (4, 5)		6cr
(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.		
(3) Meets Liberal Studies Social Science requirement.		

- (4) For students in the Computer Science Information Assurance major, [CRIM 321](#) may be substituted for Group B elective.
- (5) For students in the Computer Science Information Assurance major, [CRIM 323](#) may be substituted for Group C elective.

Minor–Information Assurance (1)

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Required Courses:		
COSC 110	Problem Solving and Structured Programming (2)	3cr
COSC 316	Host Computer Security	3cr
COSC 352	LAN Design and Installation	3cr
CRIM 101 <i>or</i> CRIM 102	Crime and Justice Systems (3) <i>or</i> Survey of Criminology (3)	3cr
CRIM 321	Cybersecurity and Loss Prevention	3cr
CRIM 323	Cybersecurity and the Law	3cr
<p>(1) Computer Science majors in the Information Assurance Track are not eligible to take this minor; instead, they must take a Criminology minor.</p> <p>(2) Computer Science majors cannot count COSC 110; instead, they must take one additional course from the following: CRIM 300, 355, 400, 401, 481, 482.</p> <p>(3) Criminology majors cannot count CRIM 101 or 102; instead, they must take one additional course from the following: COSC 341, 356, 362, 427, 432, 482, IFMG 382.</p>		

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Department of Culinary Arts

Chairperson: Albert S. Wutsch

Faculty: Blake, DeMane, Fitting, Klinger, Kapusta, Pike, Wygonik

Website: www.iup.edu/culinary

The Department of Culinary Arts offers a four-semester (sixteen calendar months), competency-based, noncredit certificate Culinary 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.

The department also offers a Culinary Arts and Baking and Pastry Arts Program for the students with a desire to excel in pastry arts. Students admitted to the combination Culinary Arts/Baking and Pastry Program are on the culinary campus for five semesters: fall, spring, and summer of the first year and fall and spring of the second year. The final summer semester is a paid externship in the industry.

The first component of all IUP culinary arts options is the accredited culinary arts curriculum. This program is nationally recognized and accredited by the American Culinary Federation.

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 programs.

Graduates of the culinary programs may transfer 42 credits of coursework toward a Bachelor of Science degree in with a major in Hospitality Management and 39 credits toward a Bachelor of Science degree with a major in Nutrition. In addition to these programs a European Study option is also available.



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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Department of Food and Nutrition

Chairperson: Susan S. Dahlheimer
Faculty: Barker, Johnson, Taylor-Davis, Wagoner
Professors emeritae: Cessna, Minnick, Steiner

Website: www.iup.edu/foodnutrition

Bachelor of Science–Nutrition

- [Dietetics Track Information](#)
Dietetics Track Requirements
- [Nutrition Track Information](#)
Nutrition Track Requirements

Nutrition Minor Information Requirements

The Department of Food and Nutrition offers a degree program in nutrition with two tracks, dietetics and general nutrition. Within the degree program, students select a natural science option determined by their academic preparation and career goals. This curriculum prepares students as professionals for a diversity of career opportunities in food service, the food industry, food and nutrition research, and health care.

In addition, the department provides Liberal Studies courses which are available to all university students. These include [FDNT 143](#), an option in the university's Liberal Studies requirements for Health and Wellness; [FDNT 145](#), a Liberal Studies elective; and three LBST 499 synthesis courses (Food and Culture, The Battle for Perfection, and Screen Cuisine).

Dietetics Track

Students who complete the Dietetics Track (Didactic Program in Dietetics) meet the academic requirements as 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 and be able to apply this knowledge to solve problems.

Nutrition Track

The Nutrition Track allows students to plan a curriculum based upon career goals other than becoming a registered dietitian. Career opportunities for these students include public health, food service administration, culinary arts, journalism, communications, business, and gerontology.

Students who wish to pursue a career in food and nutrition research should select the [Natural Science Option II](#) plus the nutrition track to acquire a foundation for theoretical and applied food science and nutrition. This option meets the needs of students who wish to enter careers in food/nutrition which require a graduate education.

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 credits of coursework from the courses listed. 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, contact the Food and Nutrition Department.

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Bachelor of Science–Nutrition/Dietetics Track

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Health and Wellness: HPED 143 Mathematics: MATH 217 Natural Science: CHEM 101-102 or 111-112 (1) Social Science: ECON 101 or 121 , PSYC 101 , SOC 151 Liberal Studies Electives: 3cr, no courses with FDNT prefix		48
Major:		25
Required Courses:		
FDNT 110	Careers in Food and Nutrition	1cr
FDNT 150	Foods	3cr
FDNT 151	Foods Laboratory	1cr
FDNT 212	Nutrition	3cr
FDNT 213	Life Cycle Nutrition	3cr
FDNT 355	Nutrition in Disease I	3cr
FDNT 362	Experimental Foods	3cr
FDNT 458	Advanced Human Nutrition	4cr
FDNT 470	Human Food Consumption Patterns	3cr
FDNT 484	Senior Seminar	1cr
Controlled Electives:		28
Dietetics Track:		
FDNT 364	Methods of Teaching	3cr
FDNT 402	Community Nutrition	3cr
FDNT 430	Professional Topics in Food and Nutrition	3cr
FDNT 455	Nutrition in Disease II	3cr
FDNT 463	Nutrition Counseling	3cr
HRIM 256	Human Resources in the Hospitality Industry	3cr
HRIM 259	Hospitality Purchasing	3cr
HRIM 313	Food Production and Service	4cr
MGMT 310	Principles of Management	3cr
Other Requirements:		13
Natural Science Sequence: BIOL 105 , 155 , 241 , CHEM 255		13cr
Free Electives:		6
Total Degree Requirements:		120
(1) CHEM 231 is also required if CHEM 111-112 is taken.		

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Bachelor of Science–Nutrition/Nutrition Track

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Health and Wellness: HPED 143 Mathematics: MATH 217 Natural Science: CHEM 101-102 or 111-112 (1)		48
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Social Science: ECON 101 or 121 , PSYC 101 , SOC 151		
Liberal Studies Electives: 3cr, no courses with FDNT prefix (2)		
Major:		25
Required Courses:		
FDNT 110	Careers in Food and Nutrition	1cr
FDNT 150	Foods	3cr
FDNT 151	Foods Laboratory	1cr
FDNT 212	Nutrition	3cr
FDNT 213	Life Cycle Nutrition	3cr
FDNT 355	Nutrition in Disease I	3cr
FDNT 362	Experimental Foods	3cr
FDNT 458	Advanced Human Nutrition	4cr
FDNT 470	Human Food Consumption Patterns	3cr
FDNT 484	Senior Seminar	1cr
Controlled Electives:		10-28
Nutrition Track (non-DPD):		
FDNT electives (300 level and above, internship of 3cr strongly recommended)		6cr
Program minor, certificate, second major, or core concentration required for program completion (3)		4-22cr
Other Requirements:		13
Natural Science Sequence: BIOL 105 , 155 , 241 , CHEM 255		13cr
Free Electives:		6-24
Total Degree Requirements:		120
<p>(1) CHEM 231 is also required if CHEM 111-112 is taken.</p> <p>(2) 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.</p> <p>(3) Select one of the following:</p> <ul style="list-style-type: none"> – Minor in Biology, Business Administration, Chemistry, Communications Media, Educational Technology, Journalism, Psychology, or Psychology Science – Certificate in Culinary Arts or Gerontology – Core concentration in Hospitality Management (FDNT 150, 151, HRIM 101, 256, 259, 265, 313, 402, HRIM 3cr elective) or Physical Education and Sport (HPED 319, 410, 411, 492, and HPED 343 or 375 or 412) 		

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Minor–Nutrition

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Required Courses:		
FDNT 212	Nutrition	3cr
FDNT 213	Life Cycle Nutrition	3cr
FDNT 245	Sports Nutrition (1)	3cr
FDNT 355	Nutrition in Disease I	3cr
FDNT 470 <i>or</i> FDNT 402	Human Food Consumption Patterns <i>or</i> Community Nutrition	3cr
(1) Students not interested in FDNT 245 may select both FDNT 402 and 470 in place of FDNT 245 .		

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Department of Health and Physical Education

Chairperson: Elaine A. Blair
Assistant Chairperson: Ronald L. Trenney
Faculty: Alman, Bayles, Black, Cortazzo, Deutschlander, Hsiao, Klingaman, Kostelnik, Lorenzi, McKee, Racchini, Rivera, Robinson, Shim, Sloniger, Smith
Professors emeriti: Aierstock, Beck, Blacksmith, Clark, Dakak, Davis, Dickie, Eltz, Godlasky, Grove, Hornfeck, Liscinsky, Mill, Montgomery, Moore, Neal, Sledzik, Sloniger, Sutton, Tucker

Website: www.iup.edu/healthphysed

Required Program–Liberal Studies	Emergency Services Training
Driver Education Driver Training Programs and Certification	Highway Safety Center IUP Regional Highway Safety Project
Traffic Accident Investigation	Aquatics School Course Offerings
B. S.Ed.–Health and Physical Education – Health and Physical Education Core – Program Requirements: B.S.Ed.–Health and Physical Education	B.S.-Physical Education and Sport – Program Requirements: Physical Education and Sport Physical Education and Sport–Aquatics Track Physical Education and Sport–Athletic Training Track Physical Education and Sport–Exercise Science Track Physical Education and Sport–Sport Administration Track

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 which includes the specialty tracks of Aquatics, Athletic Training, Exercise Science, and Sport Administration
5. Certification program in Driver Education

Required Program–Liberal Studies

The department, 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-credit 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 require that each student successfully complete [HPED 143](#) or its alternate, [FDNT 143](#). Students may also elect to take 4 credits of the ROTC program ([MLSC 101-102](#)) 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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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. Students enrolled in this program may be required to purchase a personal liability insurance policy. This will be necessary before beginning the preprofessional experience, the internship, or any other clinical experience on or off campus.

Four specialty tracks of study have been developed for the degree program in Physical Education and Sport. These tracks, in addition to the Nutrition minor within the Physical Education and Sport major, and a business minor in conjunction with the Sport Administration track, 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. Furthermore, these tracks provide emphasis in specific subject content areas and teach skills necessary for students to assume leadership roles in careers related to the health fitness industry as well as the sport science industry.

Aquatics Track

This track of study is designed to provide students with the knowledge and skills necessary to obtain leadership roles, both instructional and administrative, in a variety of professional settings. These opportunities include school districts, both for profit and nonprofit community organizations, and aquatic coaching.

Exercise Science Track

The Exercise Science program is endorsed by the American College of Sports Medicine. Exercise Science students prepare for a variety of careers in the health and fitness industry. Positions are available in private and commercial fitness clubs, medical fitness facilities, profit and nonprofit community organizations, cardiac rehabilitation programs, and aging services. Students may also wish to use this track of study to prepare for graduate education in such areas as exercise physiology, physical and occupational therapy, and other allied health programs.

Sport Administration Track

This program track prepares students to use a variety of skills to function in a management capacity within the sport industry. Graduates of this program can seek employment in such areas as school and college athletic departments, coaching, community recreation organizations, minor and major league sports franchises, commercial sport facilities, and golf courses, as well as other athletic and sports related industries. Students will acquire management skills that can be used in multiple career tracks. Successful completion of this track of study will also earn the student a Minor in Business from IUP's Eberly College of Business and Information Technology.

Athletic Training Track

IUP's Athletic Training program is accredited by the Commission on Accreditation of Athletic Training Education. This track prepares students with the knowledge, skills, and experience to provide prevention, evaluation, acute management, and rehabilitation and/or reconditioning services to professional and amateur athletes, and other individuals involved in sports, exercise, and physical activity in general. The program has an academic and a clinical education and experience component. The clinical education and experience component entails a series of eight sequential laboratory courses and a minimum of four semesters of supervised field experience with the IUP Department of Athletics and affiliated clinical settings (sports medicine clinics, physicians' offices/hospitals, and high schools). Students wishing to pursue this track must file an application for admission into the program during their fourth semester at IUP (spring of their sophomore year). Formal admission into the program is a prerequisite for assignment to clinical field experiences and enrollment in upper-level courses.

Admission into the program is competitive, and fulfillment of the minimum eligibility requirements does not guarantee admission. Each year, the program will select a predetermined number of students from the eligible candidate pool based on demonstrated academic achievement and the evaluation of other criteria (letters of recommendation, essay, etc.). The Athletic Training Selection Committee will review all completed applications and rank students according to the specified criteria. The number of candidates admitted each year may vary with the quality of the candidate pool, available clinical experience sites, and available supervision. Students not admitted initially may reapply the following year. The minimum standards for eligibility are: (1) sophomore status (minimum of 48 credits), (2) a minimum 2.7 cumulative GPA, (3) a minimum of a "C" grade in [HPED 175](#), [221](#), [242](#), [345](#), and [346](#), (4) two letters of recommendation, (5) satisfactory completion of a one-semester directed clinical observation, (6) a written essay, and (7) a completed and signed "technical standards" form. Official admission and subsequent assignment to field experiences are also contingent upon obtaining student liability insurance, health clearances (physical, TB, speech, and hearing), and Acts 34 and

151 clearances (criminal and child abuse records). Once admitted, students must continue to demonstrate above-average academic and clinical performance in order to remain in good standing (specific program retention and completion guidelines apply). Students should obtain an Athletic Training Program overview or admissions packet from the department for full details.

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Bachelor of Science in Education Degree–Health and Physical Education

The Health and Physical Education program is accredited by the National Council for Accreditation of Teacher Education, in both Health Education (with accreditation criteria defined by the American Association for Health Education) and Physical Education (with accreditation criteria defined by the National Association for Sport 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 requirements. 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 3-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.

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 degree programs in Health and Physical Education must demonstrate acceptable cognitive and psychomotor qualifications as well as desirable character and personality traits. The professional programs seek to foster those qualities of individual character and competence that are inherent in personal and professional maturity. Specific competencies and curriculum requirements are defined within each degree-specific track, and student progress is supervised by the academic advisor.

Driver Education

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: [HPED 251](#), [252](#), [353](#), and [354](#). Students must request the certificate in driver education when they apply for graduation. For students who have already graduated, contact the Office of the Dean, College of Education and Educational Technology, for correct procedures.

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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Bachelor of Science–Physical Education and Sport (*)

Liberal Studies: As outlined in Liberal Studies section with the following specifications:		48
Mathematics: MATH 217		
Natural Science: BIOL 103-104 , CHEM 101-102 , or SCI 105-106		
Social Science: PSYC 101 , SOC 151		
Liberal Studies Electives: 3cr, FDNT 145 , no courses with HPED prefix		
Major:		23
Core Requirements:		
HPED 142	Foundations of Health, Physical Education, and Sport	3cr
HPED 175	Prevention and Care of Injuries to the Physically Active	2cr
HPED 209	Motor Behavior	3cr
HPED 221	Human Structure and Function	3cr

HPED 341	Evaluation in Health and Physical Education	3cr	
HPED 343	Physiology of Exercise	3cr	
HPED 441	Psychosocial Implications for Health and Physical Education	3cr	
HPED 442	Senior Seminar: Professional Development in Health, Physical Education, and Sport	3cr	
Professional Requirements:			24
HPED 230	Aerobic Fitness	2cr	
HPED 263 <i>or</i> HPED 261	Aquatics <i>or</i> Water Safety Instructor	1cr	
HPED 315	Biomechanics	3cr	
HPED 319	Preprofessional Experience II	3cr	
HPED 344	Adapted Physical Education	3cr	
HPED 375	Physiological Basis of Strength Training	3cr	
HPED 410	Exercise Prescription	3cr	
HPED 411	Physical Fitness Appraisal	3cr	
HPED 412	Physical Activity and Stress Management	3cr	
Controlled Electives: (1)			12
Select 12cr from the following: BIOL 151, 155, HPED 333, 335, 413, 492, PHYS 151, 161, SAFE 347		12cr	
Free Electives:			13
Total Degree Requirements:			120
(*) Admission to this track is by permission of advisor only			
(1) Nutrition minor may substitute for Controlled Electives; see Department of Food and Nutrition.			

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Bachelor of Science–Physical Education and Sport–Exercise Science Track

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 217 Natural Science: BIOL 103-104, CHEM 101-102, or SCI 105-106 Social Science: PSYC 101, SOC 151 Liberal Studies Electives: 3cr, FDNT 145, no courses with HPED prefix			48
Major:			
Core Requirements:			23
HPED 142	Foundations of Health, Physical Education, and Sport	3cr	
HPED 175	Prevention and Care of Injuries to the Physically Active	2cr	
HPED 209	Motor Behavior	3cr	
HPED 221	Human Structure and Function	3cr	
HPED 341	Evaluation in Health and Physical Education	3cr	
HPED 343	Physiology of Exercise	3cr	
HPED 441	Psychosocial Implications for Health and Physical Education	3cr	
HPED 442	Senior Seminar: Professional Development in Health, Physical Education, and Sport	3cr	
Sport Science Requirements:			19
HPED 230	Aerobic Fitness	2cr	
HPED 263 <i>or</i> HPED 261	Aquatics <i>or</i> Water Safety Instructor	1cr	
HPED 315	Biomechanics	3cr	
HPED 319	Preprofessional Experience II	3cr	
HPED 344	Adapted Physical Education	3cr	
HPED 375	Physiological Basis of Strength Training	3cr	

HPED 410	Exercise Prescription	3cr	
HPED 412	Physical Activity and Stress Management	3cr	
Exercise Science Track:			19
BIOL 151	Human Physiology	4cr	
HPED 230	Aerobic Fitness	2cr	
HPED 411	Physical Fitness Appraisal	3cr	
HPED 413	Physical Activity and Aging	3cr	
PHYS 151	Medical Physics Lecture	3cr	
PHYS 161	Medical Physics Lab	1cr	
One course from the following:		3cr	
HPED 492	Health Fitness Instruction		
SAFE 347	Ergonomics		
Free Electives:			11
Total Degree Requirements:			120

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Bachelor of Science–Physical Education and Sport–Sport Administration Track

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 217 Natural Science: BIOL 103-104 , CHEM 101-102 , or SCI 105-106 Social Science: ECON 121 , PSYC 101 Liberal Studies Electives: 6cr, BTED/COSC/IFMG 101 , ECON 122 , no courses with HPED prefix			51
Major:			
Core Requirements:			23
HPED 142	Foundations of Health, Physical Education, and Sport	3cr	
HPED 175	Prevention and Care of Injuries to the Physically Active	2cr	
HPED 209	Motor Behavior	3cr	
HPED 221	Human Structure and Function	3cr	
HPED 341	Evaluation in Health and Physical Education	3cr	
HPED 343	Physiology of Exercise	3cr	
HPED 441	Psychosocial Implications for Health and Physical Education	3cr	
HPED 442	Senior Seminar: Professional Development in Health, Physical Education, and Sport	3cr	
Sport Science Requirements:			25
HPED 280	Aquatic Facilities Management	2cr	
HPED 292	Introduction to Sport Management		
HPED 319	Preprofessional Experience II	3cr	
HPED 320	Managing Facilities and Events in Sports	2cr	
HPED 344	Adapted Physical Education	3cr	
HPED 445	Business Practices in Sport	3cr	
HPED 460	Law and Issues in Managing Sport	2cr	
HPED 493	Internship	3cr	
Select one course from the following: ECON 239 , HPED 315 , 335 , 375 , 412 , 430		3cr	
Business Minor Requirements:			21
ACCT 201	Accounting Principles I	3cr	
ACCT 202	Accounting Principles II	3cr	
BLAW 235	Legal Environment of Business	3cr	
BTST 321	Business and Interpersonal Communication	3cr	
FIN 310	Fundamentals of Finance	3cr	

MGMT 310	Principles of Management	3cr
MKTG 320	Principles of Marketing	3cr
Total Degree Requirements:		120

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Bachelor of Science–Physical Education and Sport–Aquatics Track

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 217 Natural Science: BIOL 103-104 , CHEM 101-102 , or SCI 105-106 Social Science: PSYC 101 , SOC 151 Liberal Studies Electives: 9cr, BTED/COSC/IFMG 101 , FDNT 145 , no courses with HPED prefix		54
Major:		
Core Requirements:		23
HPED 142	Foundations of Health, Physical Education, and Sport	3cr
HPED 175	Prevention and Care of Injuries to the Physically Active	2cr
HPED 209	Motor Behavior	3cr
HPED 221	Human Structure and Function	3cr
HPED 341	Evaluation in Health and Physical Education	3cr
HPED 343	Physiology of Exercise	3cr
HPED 441	Psychosocial Implications for Health and Physical Education	3cr
HPED 442	Senior Seminar: Professional Development in Health, Physical Education, and Sport	3cr
Sport Science Requirements:		22
HPED 263	Aquatics	1cr
HPED 315	Biomechanics	3cr
HPED 319	Preprofessional Experience II	3cr
HPED 344	Adapted Physical Education	3cr
HPED 375	Physiological Basis of Strength Training	3cr
HPED 410	Exercise Prescription	3cr
HPED 411	Physical Fitness Appraisal	3cr
HPED 412	Physical Activity and Stress Management	3cr
Aquatic Track:		12
HPED 165	Lifeguarding	1cr
HPED 261	Water Safety Instructor	1cr
HPED 264	Advanced Aquatics	1cr
HPED 270	Instructor of Handicapped Swimming	1cr
HPED 276	Coaching of Swimming	1cr
HPED 279	Swimming Pool Maintenance and Chemistry	2cr
HPED 280	Aquatic Facilities Management	2cr
HPED 335	Athletic Coaching	3cr
Free Electives:		9
Total Degree Requirements:		120

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Bachelor of Science–Physical Education and Sport–Athletic Training Track

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 217		51
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Natural Science: BIOL 103-104 or CHEM 101-102			
Social Science: PSYC 101, SOC 151			
Liberal Studies Electives: 6cr, BTED/COSC/IFMG 101, FDNT 145, no course with HPED prefix			
Major:			
Core Requirements:			23
HPED 142	Foundations of Health, Physical Education, and Sport	3cr	
HPED 175	Prevention and Care of Injuries to the Physically Active	2cr	
HPED 209	Motor Behavior	3cr	
HPED 221	Human Structure and Function	3cr	
HPED 341	Evaluation in Health and Physical Education	3cr	
HPED 343	Physiology of Exercise	3cr	
HPED 441	Psychosocial Implications for Health and Physical Education	3cr	
HPED 442	Senior Seminar: Professional Development in Health, Physical Education, and Sport	3cr	
Athletic Training Track Requirements:			44
BIOL 151	Human Physiology	4cr	
HPED 315	Biomechanics	3cr	
HPED 344	Adapted Physical Education	3cr	
HPED 345	Athletic Training	3cr	
HPED 346	Athletic Training Lab	1cr	
HPED 365	Advanced Athletic Training	4cr	
HPED 375	Physiological Basis of Strength Training	3cr	
HPED 376	Athletic Training Clinical Practicum I	1cr	
HPED 377	Athletic Training Clinical Practicum II	1cr	
HPED 380	Seminar in Sports Medicine	2cr	
HPED 411	Physical Fitness Appraisal	3cr	
HPED 446	Therapeutic Modalities	4cr	
HPED 448	Therapeutic Exercise for Athletic Injury Management	4cr	
HPED 476	Athletic Training Clinical Practicum III	1cr	
HPED 477	Athletic Training Clinical Practicum IV	1cr	
PHYS 151	Medical Physics Lecture	3cr	
Controlled Electives: one course from the following: FDNT 245, HPED 410, 492, SAFE 347		3cr	
Free Electives:			2
Total Degree Requirements:			120
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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Bachelor of Science in Education–Health and Physical Education (*)

Liberal Studies: As outlined in Liberal Studies section with the following specifications:			48
Mathematics: MATH 217 and 3 additional cr (must be approved as Liberal Studies Mathematics courses)			
Natural Science: BIOL 103-104 or CHEM 101-102			
Social Science: PSYC 101			
Liberal Studies Electives: 0cr			
Major:			28
Core Requirements:			

HPED 142	Foundations of Health, Physical Education, and Sport	3cr
HPED 175	Prevention and Care of Injuries to the Physically Active	2cr
HPED 209	Motor Behavior	3cr
HPED 221	Human Structure and Function	3cr
HPED 242	Emergency Health Care (1)	1cr
HPED 261	Water Safety Instructor	1cr
HPED 315	Biomechanics	3cr
HPED 341	Evaluation in Health and Physical Education	3cr
HPED 343	Physiology of Exercise	3cr
HPED 441	Psychosocial Implications for Health and Physical Education	3cr
HPED 442	Seminar in Health, Physical Education, and Recreation I	3cr
Professional Requirements:		23
Health and Physical Education:		
HPED 214	Teaching Health Fitness and Gymnastics	1cr
HPED 215	Teaching Rhythmic Activities and Dance	1cr
HPED 216	Teaching Elementary Physical Education	2cr
HPED 217	Teaching Middle School Physical Education	2cr
HPED 218	Teaching Secondary Physical Education	2cr
HPED 316	Teaching Elementary Health Education	2cr
HPED 318	Preprofessional Experience I	1cr
HPED 325	School and Community Health	3cr
HPED 370	Adapted Health and Physical Education (2)	3cr
HPED 426	Health Science Instruction	3cr
HPED 450	Curriculum and Programming in Sexuality Education	3cr
College:		21
Preprofessional Education Requirements:		
COMM 103	Digital Instructional Technology	3cr
EDSP 102	Educational Psychology	3cr
Professional Education Requirements:		
EDUC 242	Pre-student Teaching Clinical Experience I	1cr
EDUC 342	Pre-student Teaching Clinical Experience II	1cr
EDUC 421	Student Teaching	6cr
EDUC 441	Student Teaching	6cr
EDUC 442	School Law	1cr
(#) Total Degree Requirements:		120
<p>(*) See requirements leading to teacher certification, titled "3-Step Process for Teacher Education," in the College of Education and Educational Technology section of this catalog.</p> <p>(1) Students are required to keep CPR Instructor Certification current from completion of HPED 242 until graduation.</p> <p>(2) Teacher education majors must take HPED 370.</p> <p>(#) See advisory paragraph "Timely Completion of Degree Requirements" in the section on Requirements for Graduation.</p>		

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Teacher Certification in Driver Education

Through cooperative effort with the Department of Health and Physical Education, the Highway Safety Center coordinates and directs IUP's Teacher Certification Program in Driver Education.

Certification—Driver Education

Certification in Driver Education 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 (1)	3cr
HPED 252	Introduction to the Driving Task	3cr
HPED 353	Driving Education Program Management	3cr
HPED 354	Application of Driver Education Instructional Modes	3cr
(1) HPED 251 may be substituted for HPED 242 in the core curriculum.		

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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.

IUP Regional Highway Safety Project

This 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 provides car seats to Indiana County residents.

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.

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Emergency Services Training

This program area is 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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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Department of Hospitality Management

Chairperson: Stephen B. Shiring
Faculty: Miller, Sullivan, T. Van Dyke
Professors emeriti: Simkins, Woods

Website: www.iup.edu/hospitality-mgt

The Department of Hospitality Management is one of the premier hospitality management programs in the Commonwealth of Pennsylvania. The second largest hospitality management program in the commonwealth, it is regionally known and nationally respected. It offers students an academic preparation leading to a Bachelor of Science degree.

The mission of the Department of Hospitality Management program: *We will develop competent, entry-level, hospitality management professionals who meet and exceed contemporary industry needs while preparing them for the attainment of continued future career growth and achievement.*

The dynamic, flexible curriculum prepares students for professional careers in the hospitality management industry. Graduates of the program have specialized knowledge and skills for managing the business of hotels, resorts, restaurants, clubs, theme parks, contract food services, school food service, business and industry, cruise lines, special events, convention and trade show events, and wedding consultation and in areas of the travel and tourism industry. The program is accredited by the Accreditation Commission for Programs in Hospitality Administration.

Bachelor of Science—Hospitality Management

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Health and Wellness: FDNT 143 Mathematics: MATH 101 or higher Natural Science: Option I Social Science: ECON 101 , PSYC 101 Liberal Studies Electives: 3cr, no course with HRIM prefix		48
Major:		
Required Courses:		44
HRIM 101	Introduction to the Hospitality Industry	3cr
HRIM 130	Hospitality Sanitation and Security	3cr
HRIM 150	Principles of Hospitality Management	3cr
HRIM 256	Human Resources in the Hospitality Industry	3cr
HRIM 259	Hospitality Purchasing	3cr
HRIM 265	Hospitality Cost Management	3cr
HRIM 310	Professional Development in the Hospitality Industry	2cr
HRIM 313	Food Production and Service	4cr
HRIM 320	Hospitality Marketing	3cr
HRIM 330	Applications of Food Production and Service	4cr
HRIM 335	Legal Issues in Hospitality	3cr
HRIM 413	Advanced Food Production and Service	4cr
HRIM 470	Hospitality Business Model	3cr
HRIM 493	Internship (1)	3cr
Controlled Electives:		16
One track required: 16cr of nonrequired HRIM prefix courses		16cr

Other Requirements:		9-11
ACCT 201	Accounting Principles I	3cr
ENLG XXX	Foreign Languages	6-8cr
Free Electives: (2)		1-3
Total Degree Requirements:		120
<p>(1) Each student must complete 800 hours of work experience, of which 400 hours must be through supervised experiences in HRIM 493. See department internship coordinator for detailed information.</p> <p>(2) State System Board of Governors' policy states that at least 40 percent of the coursework in a degree must consist of courses numbered 300 or above.</p>		

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Department of Human Development and Environmental Studies

Chairperson: Mary E. Swinker
Faculty: Blood, Bowers, Gordon, Henry, Judkins, McCombie, Viggiano
Professors emeriti: Cramer, Gallati, Heckroth, Hovis, Kazmer, Kesner, A. Nelson, L. Nelson, Streifthau, Wood

Website: www.iup.edu/hdes

Child and Family Studies Major

- Bachelor of Science—Child and Family Studies

Child and Family Studies Minor

Interior Design

- Bachelor of Science—Interior Design

Family and Consumer Sciences Education

- Bachelor of Science in Education—Family and Consumer Sciences Education

Fashion Merchandising

- Bachelor of Science—Fashion Merchandising
-

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 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 and Family Studies, 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.

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 this 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.

Bachelor of Science–Fashion Merchandising

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 101 or higher level MATH course Natural Science: CHEM 101-102 or SCI 105-106 Social Science: ECON 101 , PSYC 101 , GEOG 104 or ANTH 110 or 211 Liberal Studies Electives: 9cr, BTED/COSC/IFMG 101 , ECON 122 , MATH 214 or 217 , no course with FSMR prefix		54
Major:		36
Required Courses:		
FSMR 110	Introduction to Fashion	3cr
FSMR 112	Fundamentals of Clothing Construction	3cr
FSMR 314	Textiles	3cr
FSMR 350	Apparel Industry I	3cr
FSMR 360	Apparel Industry II	3cr
FSMR 385	Ready-to-Wear Analysis	3cr
FSMR 434	Quality Control in Textiles	3cr
FSMR 456	Historic Costume	3cr
FSMR 480	Seminar in Fashion Merchandising	3cr
Controlled Electives:		
Three courses from the following: FSMR 212 , 252 , 281 , 303 , 356 , 357 , 433 , 453 , 454 , 455 , 481 , 482 , INDS 205		9cr
Additional Requirements:		21-24
Required Courses:		
ACCT 201	Accounting Principles I	3cr
JRNL 120 <i>or</i> ENGL 310	Journalistic Writing <i>or</i> Public Speaking	3cr
MKTG 320	Principles of Marketing	3cr
Students will complete courses in one of the following options:		12-15cr
<i>Option 1: Business Administration Minor (15cr)</i> ACCT 202 , FIN 310 , MGMT 310 , select two courses from BTST 321 , BLAW 235 , IFMG 300 (Note: students must meet all minor requirements listed in catalog)		
<i>Option 2: Marketing (12cr)</i> MKTG 321 , select three 3cr 400-level MKTG courses		
<i>Option 3: Small Business Management (12cr)</i> MGMT 275 , 325 (1), select two courses from MGMT 300 , 310 , 350 , 403 (2)		
Free Electives:		6-9
Total Degree Requirements:		120
(1) Prerequisites to be waived. (2) Student will need to take ACCT 202 and 300 .		

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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 Interior Design program is accredited by the National Association of Schools of Art and Design.

The core of the program includes courses addressing space planning, drafting, design graphics, color theory, building systems, materials and finishes, human factors, computer-aided drafting and design, 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.

Bachelor of Science–Interior Design

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Fine Arts: fulfilled by ARHI 205 Humanities-Philosophy/Religious Studies: PHIL 223 recommended Mathematics: MATH 101 or higher Natural Science: SCI 105-106 Social Science: PSYC 101 , SOC 151 Liberal Studies Electives: 6cr, ARHI 207 , ECON 122 , no courses with INDS prefix	51
Major:	51
Required Courses:	
FSMR 314 Textiles	3cr
INDS 105 Introduction to Interior Design	3cr
INDS 118 Drafting for Construction I	3cr
INDS 205 Color Theory and Application	3cr
INDS 218 Drafting for Construction II	3cr
INDS 230 Presentation for Interior Design	3cr
INDS 240 Three-Dimensional Design for Interior Design	3cr
INDS 305 Interior Lighting	3cr
INDS 310 Human Factors in Interior Design	3cr
INDS 313 Materials and Finishes	3cr
INDS 315 Residential Design I	3cr
INDS 319 Residential Design II: Kitchen, Bath, Media Room Design	3cr
INDS 370 Development of Design I	3cr
INDS 380 Development of Design II	3cr
INDS 405 Interior Design Professional Practice	3cr
INDS 464 Contract Design I	3cr
INDS 465 Contract Design II	3cr
Other Requirements:	15
Outside Concentration:	
<i>Business:</i> BTST 105 , MKTG 320	6cr
<i>Art:</i> ART 114 ; two courses from the following: ART 213 , ART 214 , 215 , 216 , 218 , 219	9cr
Free Electives:	3
Total Degree Requirements:	120

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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. Professional education courses are also required.

Bachelor of Science in Education–Family and Consumer Sciences Education (*)

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 151 Natural Science: CHEM 101-102 Social Science: PSYC 101 , SOC 151 Liberal Studies Electives: 6cr, CNSV 315 , MATH 152 , no courses with FCSE prefix	51
College:	32
Preprofessional Education Sequence:	

COMM 103	Digital Instructional Technology	3cr
EDSP 102	Educational Psychology	3cr
Professional Education Sequence:		
EDEX 301	Education of Students with Disabilities in Inclusive Secondary Settings	2cr
EDSP 477	Assessment of Student Learning: Design and Interpretation of Educational Measures	3cr
EDUC 242	Pre-student Teaching Clinical Experience I	1cr
EDUC 342	Pre-student Teaching Clinical Experience II	1cr
EDUC 431	Student Teaching in Family and Consumer Sciences	6cr
EDUC 441	Student Teaching	6cr
EDUC 442	School Law	1cr
FCSE 350	Teaching Family Life Education	3cr
FCSE 450	Teaching Vocational and Family Consumer Sciences Education	3cr
Major:		34
Required Courses:		
CDFR 218	Child Development	3cr
CDFR 224	Marriage and Family Relations	3cr
CDFR 321	Preschool Education	3cr
CNSV 101	Personal and Family Management	3cr
FDNT 150	Foods	3cr
FDNT 151	Foods Laboratory	1cr
FDNT 212	Nutrition	3cr
FSMR 112	Fundamentals of Clothing Construction	3cr
FSMR 314	Textiles	3cr
INDS 312	Housing and Culture	3cr
Controlled Electives:		
One course from the following: CNSV 413 , 416 , FSMR 434 , INDS 213		3cr
One course from the following: CDFR 323 , 463 , FDNT 213 , 245 , FSMR 110 , 252 , HRIM 313 (1) , HPED 450 , INDS 205		3cr
Free Electives:		3
(#) Total Degree Requirements:		120
<p>(*) See requirements leading to teacher certification, titled "3-Step Process for Teacher Education," in the College of Education and Educational Technology section of this catalog.</p> <p>(1) Must take the prerequisite HRIM 259.</p> <p>(#) See advisory paragraph "Timely Completion of Degree Requirements" in the section on Requirements for Graduation.</p>		

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Child and Family Studies Major

The Child and Family Studies 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 relations, to teach at the adult level, or to administer human service agencies at federal, state, or local levels. The program also provides preparation for students who want to pursue graduate study in child development or family studies.

Current IUP students who wish to major or minor in Child and Family Studies must have a cumulative GPA of 2.3, after 45 credits, to be accepted formally by the department. Students transferring into IUP with fewer than 45 credits must have a GPA of 2.3 upon completion of 45 credits total (transfer plus IUP credits). Students transferring into IUP with more than 45 credits must have a GPA of 2.3 upon completion of their first semester.

Bachelor of Science–Child and Family Studies

Liberal Studies: As outlined in Liberal Studies section with the following specifications:	51
Mathematics: 3cr	
Social Science: ANTH 110 , PSYC 101 , SOC 151	
Liberal Studies Electives: 6cr, CNSV 315 , no courses with CDFR prefix	
Major:	34

Required Courses:		
CDFR 218	Child Development	3cr
CDFR 224	Marriage and Family Relations	3cr
CDFR 310	Advanced Child Development	3cr
CDFR 321	Preschool Education: Developmentally Appropriate Practices	3cr
CDFR 322	Early Care and Education	3cr
CDFR 323	Family Issues	3cr
CDFR 410	Infant Development	3cr
CDFR 426	Techniques of Parent Education	3cr
CDFR 428	Family Dynamics	3cr
CDFR 429	Teaching in Child Development Centers	4cr
CDFR 463	Family and the Community	3cr
Other Requirements:		6-7
Outside Courses:		
NURS 202 <i>or</i>	Foundations of Child Health <i>or</i>	3cr
BIOL 155	Human Physiology and Anatomy	4cr
FDNT 145	Introduction to Nutrition	3cr
Free Electives: (1)		28-29
Total Degree Requirements:		120
(1) Minors are encouraged in Psychology, Sociology, Educational Psychology, or Deaf Education. Internships and/or NCFR Family Life Education Certificate Program also encouraged.		

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Minor–Child and Family Studies

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Required Courses:		
CDFR 218	Child Development	3cr
CDFR 224	Marriage and Family Relations	3cr
CDFR XXX	Any combination of four additional courses with CDFR prefix	12cr

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Department of Industrial and Labor Relations

Chairperson: Jennie K. Bullard
Faculty: Decker, Korn, McCollester, Piper
Professors emeriti: Byers, McPherson, Morand

Website: www.iup.edu/ilr

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-credit program consists of a required core of 27 credits, including an elective thesis and elective course offerings totaling 15 credits. Internships are available and strongly encouraged.

The 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.

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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Department of Nursing and Allied Health Professions

Chairperson: Michele A. Gerwick
Faculty: Beck, Hartman, Holmes, Kostelnik, Kuzneski, Labant, Palmer, Poorman, Rossiter, Sadler, Settlemyer, Shanty, Shellenbarger, Twal, Walz, Zuraikat
Professor emeritus: Blair, Kresak, Murray, Smatlak, Snyder, Thistlethwaite

Website: www.iup.edu/rn-alliedhealth

Bachelor of Science

- [Clinical Laboratory Science](#)
- [Nuclear Medicine Technology](#)
- [Nursing](#)
- [Nursing/Registered Nurse Track](#)
- [Nursing/Licensed Practical Nurse Track](#)
- [Respiratory Care](#)
- [Respiratory Care/Certified Respiratory Therapist Track](#)

Gerontology Certificate Program

Allied Health Professions Programs

The College of Health and Human Services offers a curriculum leading to the Bachelor of Science degree with a major in Nursing. Students are admitted to the nursing major as freshmen. Transfer students and those with a previous degree may also be admitted. Upon completion of the program, the graduate is prepared to write the examination for licensure as a Registered Nurse in Pennsylvania and all other states. The program is accredited by the Commission on Collegiate Nursing Education.

The nursing curriculum has as its primary goal the development of professional nurse generalists who are liberally educated, clinically competent, and aware of their social responsibilities as health professionals. The program is designed to provide a broad background in liberal education, coupled with the specialized knowledge and skills required for professional nursing practice. 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 team, and to utilize scientific principles in planning, implementing, and evaluating health care. The nursing curriculum emphasizes concepts in primary, secondary, and tertiary prevention of health problems.

The first two semesters are devoted mainly to Liberal Studies and science courses considered essential to the nursing major. Throughout the last six semesters, clinical experiences in patient care are provided in acute and long-term care facilities as well as community settings.

The Bachelor of Science degree with a major in Nursing is offered for registered nurses who are graduates of accredited diploma or associate degree nursing programs and who have met IUP's admission requirements. The track for registered nurses awards advanced standing based on prior work completed in a nursing program. Registered nurse students will fulfill all degree requirements set by the university. The track is designed to prepare the professional nurse to function as a provider, designer, manager, and coordinator of care in a variety of health care settings.

The Bachelor of Science degree with a major in Nursing is offered for licensed practical nurses who are graduates of accredited, approved practical nursing programs and who have met IUP's admission requirements. The track for licensed practical nurses provides an alternative curriculum accounting for prior work completed in a practical nursing program. Licensed Practical Nurse students will fulfill all degree requirements set by the university. The track is designed to prepare the practical nurse to function as a provider, designer, manager, and coordinator of care in a variety of health care settings.

Detailed information is available in the department office regarding requirements such as health screening, liability insurance, legal clearance, transportation, and professional uniforms.

Bachelor of Science–Nursing

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 217 (1) Natural Science: CHEM 101-102 Social Science: PSYC 101 , SOC 151 Liberal Studies Electives: 3cr, PSYC 310 , no courses with NURS prefix		48
Major:		52-55
Required Courses:		
NURS 211	Nursing Practice I	1cr
NURS 212	Professional Nursing I	2cr
NURS 213	Nursing Practice II	1cr
NURS 214	Health Assessment	2cr
NURS 236	Foundations of Nursing	3cr
NURS 312	Professional Nursing II	2cr
NURS 316	Research Utilization in Nursing	3cr
NURS 336	Adult Health I	4cr
NURS 337	Adult Health Clinical I	5cr
NURS 338	Maternal-Child Health	4cr
NURS 339	Maternal-Child Health Clinical	5cr
NURS 412	Professional Nursing III	2cr
NURS 432	Psychiatric/Mental Health	2cr
NURS 434	Community Health	2cr
NURS 435	Community and Psychiatric/Mental Health Clinical	5cr
NURS 436	Adult Health II	4cr
NURS 437	Adult Health Clinical II	5cr
NURS 450	A Cognitive Approach to Clinical Problem Solving (2)	3cr
Other Requirements:		16
Science Sequence:		
BIOL 105	Cell Biology	3cr
BIOL 150	Human Anatomy	3cr
BIOL 151	Human Physiology	4cr
BIOL 241	General Microbiology	3cr
FDNT 212	Nutrition	3cr
Free Electives:		1-4
(#) Total Degree Requirements:		120
<p>(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.</p> <p>(2) Students who achieve a higher score than a specified minimum on a department-required standard test(s) are exempt from NURS 450. These students would need 4cr of Free Electives.</p> <p>(#) See advisory paragraph “Timely Completion of Degree Requirements” in the section on Requirements for Graduation.</p>		

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Bachelor of Science–Nursing/Registered Nurse Track

Liberal Studies: As outlined in Liberal Studies section with the following specifications:	48
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Health and Wellness: Fulfilled by the major		
Mathematics: MATH 217		
Liberal Studies Electives: 3cr, no course with NURS prefix		
Major:		59
Required Courses:		
NURS 316	Research Utilization in Nursing	3cr
NURS 334	Transitions in Professional Nursing	3cr
NURS 411	Advanced Health Assessment	3cr
NURS 412	Professional Nursing III	2cr
NURS 434	Community Health	2cr
NURS 454	Health Promotion of Families Across the Lifespan	3cr
NURS 455	Introduction to Nursing Informatics	3cr
NURS 467	Leadership Practicum	2cr
NURS 469	Community Health Practicum	2cr
NURS 480	Seminar in Nursing	3cr
NURS XXX	Electives	3cr
NURS	Credits via articulation	30cr
Free Electives: (1)		13
Total Degree Requirements:		120
(1) 3cr must have non-nursing prefix		

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Bachelor of Science-Nursing/Licensed Practical Nurse Track (1)

Liberal Studies: As outlined in Liberal Studies section with the following specifications:		49
Health and Wellness: Fulfilled by the major		
Mathematics: MATH 217		
Natural Science: CHEM 101-102		
Social Science: PSYC 101 , SOC 151		
Liberal Studies Electives: 7cr, PSYC 310 , LIBR 251 , no courses with NURS prefix		
Major:		51
Required Courses:		
NURS 214	Health Assessment	2cr
NURS 312	Professional Nursing II	2cr
NURS 316	Research Utilization in Nursing	3cr
NURS 334	Transitions in Professional Nursing	3cr
NURS 412	Professional Nursing III	2cr
NURS 432	Psychiatric/Mental Health	2cr
NURS 434	Community Health	2cr
NURS 435	Community and Psychiatric/Mental Health Clinical	5cr
NURS 436	Adult Health II	4cr
NURS 437	Adult Health Clinical II	5cr
NURS 450	A Cognitive Approach to Clinical Problem Solving (2)	3cr
NURS 336	Adult Health I <i>and</i>	4cr
NURS 337	Adult Health Clinical I	5cr
<i>OR</i>	Credits by Exam (3) <i>and</i>	8cr
NURS 493	Internship	1cr
NURS 338	Maternal-Child Health <i>and</i>	4cr
NURS 339	Maternal-Child Health Clinical	5cr
<i>OR</i>	Credits by Exam (3) <i>and</i>	8cr

NURS 493	Internship	1cr
Other Requirements:		16
BIOL 105	Cell Biology	3cr
BIOL 150	Human Anatomy	3cr
BIOL 151	Human Physiology	4cr
BIOL 241	General Microbiology	3cr
FDNT 212	Nutrition	3cr
Free Electives:		4
Total Degree Requirements:		120
<p>(1) The Pennsylvania State Board of Nursing requires 4 units of English, 3 units of social studies, 2 units of math (1 of which is algebra), and 2 units of science in high school for admission to the nursing major.</p> <p>(2) Students who achieve a higher score than a specified minimum on a department-required standardized test(s) are exempt from NURS 450.</p> <p>(3) Students have the option of earning up to 16cr via examination and NURS 493 (1-2cr) or completing NURS 336, 337, 338, and 339 (18cr). Exam results must be received before students register for any 300- or 400-level nursing courses other than NURS 334.</p>		

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Allied Health Professions Programs

Coordinator: Jodell L. Kuzneski

Respiratory Care

The Bachelor of Science degree with a major in respiratory care prepares the graduate for a career as a registered respiratory care practitioner. Respiratory care practitioners evaluate, treat, and care for people with breathing problems. They assist physicians in the evaluation and treatment of heart and lung disorders. Respiratory care practitioners are experts in the therapeutic use of medical gases, oxygen administration, pulmonary resuscitation, and artificial airways. They are employed in hospitals, extended care facilities, clinics, rehabilitation centers, physicians' offices, private companies providing home care services, and municipal organizations.

IUP and the Western Pennsylvania Hospital in Pittsburgh jointly offer this program. The program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of the Committee on Accreditation for Respiratory Care. The program consists of two academic years of preclinical studies (61 credits) on the main campus at IUP and two academic years (59 credits) of clinical study at the Western Pennsylvania Hospital School of Respiratory Care, Pittsburgh. Students are expected to earn a GPA of at least 2.25 in the required natural sciences and mathematics courses and an overall GPA of at least 2.0 to be considered for admission into the clinical years in respiratory care. However, since admission to the clinical years is competitive, IUP cannot guarantee admission. Upon graduation, graduates are eligible for certification (CRT) and registration (RRT) in respiratory care. The granting of the degree is not contingent upon passing the examinations. Graduates are prepared for graduate degrees that may lead to careers in administration, education, and medicine.

The Bachelor of Science degree with a major in respiratory care is offered for Certified Respiratory Therapists (CRT) who are graduates of an accredited certificate or associate degree respiratory care program. CRT students will be awarded advanced standing (33 credits) based on prior academic work completed in a respiratory care program. Students fulfill degree requirements set by the university. This track is designed to prepare the certified respiratory therapist (CRT) to function in an advanced practice role.

Detailed information is available in the department office regarding requirements, such as health screening, liability insurance, legal clearance, and professional uniforms.

Bachelor of Science–Respiratory Care

<p>Liberal Studies: As outlined in Liberal Studies section with the following specifications:</p> <p>Mathematics: MATH 105 or higher level</p> <p>Natural Science: CHEM 101-102</p> <p>Social Sciences: PSYC 101, SOC 151, non-Western course</p> <p>Synthesis: not required</p>	48
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Writing Intensive: not required		
Liberal Studies Electives: 6cr, PHYS 151 , no courses with RESP prefix		
Major:		59
Required Courses:		
RESP 101	The Profession of Respiratory Care	1cr
RESP 326	Respiratory Care Clinical Practice I	3cr
RESP 327	Pharmacology	3cr
RESP 328	Introduction to Respiratory Care	4cr
RESP 329	Respiratory Care Equipment	4cr
RESP 330	Cardiopulmonary Resuscitation	2cr
RESP 333	Respiratory Care Clinical Practice II	3cr
RESP 334	Respiratory Care Instrumentation and Application	4cr
RESP 335	Patient Care Skills	3cr
RESP 336	Cardiopulmonary Evaluation and Clinical Correlation	4cr
RESP 337	Intro to Pulmonary Function Studies	1cr
RESP 425	Clinical Case Studies	3cr
RESP 426	Respiratory Care Clinical Practice III	4cr
RESP 428	Essentials of Electrocardiology	2cr
RESP 429	Design and Function of a Respiratory Care Program	2cr
RESP 430	Pulmonary Function Studies	3cr
RESP 431	Pediatric Respiratory Care	1cr
RESP 433	Respiratory Care Clinical Practice IV	4cr
RESP 434	Neonatal Respiratory Care	3cr
RESP 436	Respiratory Care Teaching	2cr
RESP 437	Methods in Critical Care	2cr
RESP 438	Cardiopulmonary Rehabilitation	1cr
Other Requirements:		13
Science Courses:		
BIOL 105	Cell Biology	3cr
BIOL 150	Human Anatomy	3cr
BIOL 151	Human Physiology	4cr
BIOL 241	General Microbiology	3cr
Total Degree Requirements: (1)		120
(1) RESP 300 - and 400 -level courses are completed at Western Pennsylvania Hospital School of Respiratory Care in Pittsburgh.		

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Bachelor of Science-Respiratory Care/Certified Respiratory Therapist Track

Liberal Studies: As outlined in Liberal Studies section with the following specifications:		48
Mathematics: 3cr		
Synthesis: not required		
Writing Intensive: not required		
Liberal Studies Electives: 6cr, no courses with RESP prefix		
Major:		60
RESP credits via articulation (1)		33cr
Required Courses: (2)		27cr
RESP 425	Clinical Case Studies	3cr
RESP 426	Respiratory Care Clinical Practice III	4cr
RESP 428	Essentials of Electrocardiology	2cr
RESP 429	Design and Function of a Respiratory Care Program	2cr

RESP 430	Pulmonary Function Studies	3cr
RESP 431	Pediatric Respiratory Care	1cr
RESP 433	Respiratory Care Clinical Practice IV	4cr
RESP 434	Neonatal Respiratory Care	3cr
RESP 436	Respiratory Care Teaching	2cr
RESP 437	Methods in Critical Care	2cr
RESP 438	Cardiopulmonary Rehabilitation	1cr
Free Electives:		12
Total Degree Requirements: (1)		120
<p>(1) Students in the CRT track are exempt from the 100- and 300-level courses in the Respiratory Care major and will receive 33cr via articulation.</p> <p>(2) RESP 400-level courses are completed at Western Pennsylvania Hospital School of Respiratory Care in Pittsburgh.</p>		

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Clinical Laboratory Science

Clinical Laboratory Science encompasses the study of analytical and diagnostic procedures used in clinical laboratories and in medical research. Clinical Laboratory Scientists (also known as Medical Technologists) 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 clinical laboratory science programs in hospitals, prepares the student to enter the profession. Upon completion of the four-year program, the Bachelor of Science degree with a major in Clinical Laboratory Science is granted. The program also prepares the student for graduate and professional schools.

IUP maintains affiliations with accredited Schools of Clinical Laboratory Science/Medical Technology. To be competitive for clinical placement the student must have a minimum overall GPA and Math/Science GPA of 2.5. Since admission to any hospital program is on a competitive basis, IUP cannot guarantee admission.

The following programs maintain agreements of affiliation with IUP: Altoona Regional Health System, Altoona; Children's Hospital Medical Center, Akron, Ohio; Memorial Medical Center, Johnstown; Lancaster General College of Nursing and Health Sciences, Lancaster; Reading Hospital and Medical Center, Reading; St. Christopher's Hospital for Children, North Philadelphia; St. Vincent Health Center, Erie; Williamsport Hospital and Medical Center, Williamsport; WCA Hospital, Jamestown, N.Y.; and York Hospital, York.

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.

Bachelor of Science–Clinical Laboratory Science

Liberal Studies: As follows:		48
Mathematics: MATH 217		
Natural Science: CHEM 111-112		
Synthesis: not required		
Writing Intensive: one required		
Liberal Studies Electives: 6cr, PHYS 111, no courses with MEDT prefix		
Major:		32
Required Courses: (1)		
MEDT 494	Clinical Microbiology	8cr
MEDT 495	Clinical Chemistry	10cr
MEDT 496	Clinical Hematology/Coagulation	6cr
MEDT 497	Clinical Immunohematology	4cr
MEDT 498	Clinical Immunology/Serology	2cr
MEDT 499	Clinical Seminar	2cr

Other Requirements:		38
Required Courses:		
BIOL 111	Principles of Biology I	4cr
BIOL 150	Human Anatomy	3cr
BIOL 151	Human Physiology	4cr
BIOL 250	Principles of Microbiology	3cr
BIOL 364	Immunology	3cr
CHEM 231	Organic Chemistry I	4cr
CHEM 232	Organic Chemistry II	4cr
CHEM 323	Analytical Methods	4cr
CHEM 351	Biochemistry	4cr
PHYS 121	Physics I Lab	1cr
PHYS 112	Physics II Lecture	3cr
PHYS 122	Physics II Lab	1cr
Free Electives:		2
(#) Total Degree Requirements:		120
(#) See advisory paragraph "Timely Completion of Degree Requirements" in the section on Requirements for Graduation. (1) These courses are offered by affiliating hospital-based Schools of Clinical Laboratory Science (also known as Medical Technology). Areas of study are consistent with requirements of the National Accrediting Agency for Clinical Laboratory Sciences and are completed during the final twelve months of the degree program at an affiliating school.		

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Nuclear Medicine Technology

Nuclear Medicine Technology is a medical specialty in which allied health care professionals, under the direction of a nuclear medicine physician, use radioactive materials in the diagnosis and treatment of disease. They are responsible for patient education and preparation regarding the nuclear medicine procedures, administration of radiopharmaceuticals, performing complex computer imaging studies, and radiation safety procedures for both patients and staff. The nuclear medicine technologist's skills complement those of the nuclear medicine physician.

The College of Health and Human Services offers a curriculum leading to the Bachelor of Science degree with a major in Nuclear Medicine Technology. Students are admitted to the major as freshmen. Transfer students and those with a previous degree may also be admitted. The program of study consists of three years of preclinical study on the IUP main campus and one year of clinical study at either the Nuclear Medicine Institute (NMI) at the University of Findlay, Findlay, Ohio, or the Nuclear Medicine Technology program at the Community College of Allegheny County (CCAC). The programs at NMI and CCAC are fully accredited by the Joint Review Committee on Educational Programs in Nuclear Medicine Technology (JRCNMT). Graduates of the program are eligible to take the Nuclear Medicine Technology national certificate examination offered by the Nuclear Medicine Technology Certification Board and the American Registry of Radiologic Technologists (ARRT). The granting of the degree is not contingent upon passing the examinations.

Students must meet specific academic requirements to be considered for admission to the NMI or to the CCAC Nuclear Medicine Technology program. Admission is competitive; IUP cannot guarantee admission into either of these facilities. Information regarding academic requirements and other special requirements for the clinical year is available in the department's office.

Bachelor of Science–Nuclear Medicine Technology

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 105 Natural Science: CHEM 101-102 Social Science: PSYC 101 , SOC 151 Liberal Studies Electives: 9cr, BTED/COSC/IFMG 101 , MATH 217 , PHYS 111 , no courses with NMDT prefix	51

Major:		32
Required Courses: (1)		
NMDT 427	Nuclear Scintigraphy	3cr
NMDT 428	Radiation Physics	3cr
NMDT 429	Nuclear Medicine Instrumentation	3cr
NMDT 430	Radiation Biology and Radiation Protection	2cr
NMDT 431	In Vivo/In Vitro Non-Imaging	1cr
NMDT 432	Radiopharmaceuticals	3cr
NMDT 433	Introduction to Tomographic Imaging	1cr
NMDT 434	Clinical Nuclear Medicine	16cr
Other Requirements: (2)		
BIOL 105	Cell Biology	3cr
BIOL 150	Human Anatomy	3cr
BIOL 151	Human Physiology	4cr
ENGL 310	Public Speaking	3cr
PHYS 121	Physics I Lab	1cr
PHYS 112	Physics II Lecture	3cr
PHYS 122	Physics II Lab	1cr
Free Electives: (3)		
		19
Total Degree Requirements:		120
<p>(1) These courses are offered at the University of Findlay/Nuclear Medicine Institute, Findlay, Ohio, and/or Community College of Allegheny County Nuclear Medicine Technology program, Pittsburgh. 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.</p> <p>(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.</p> <p>(3) Two writing-intensive courses are required. Both courses may be from either Liberal Studies or Free Electives.</p>		

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Gerontology Certificate Program

Coordinator: Jodell L. Kuzneski

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-credit 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.

Gerontology–Certificate Program

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Core Courses:		9
HPED 350	Health Aspects of Aging	3cr
PSYC 312	Adult Development and Aging	3cr
SOC 357	Sociology of Aging	3cr
Controlled Electives:		9
ANTH 340, 444, CDFR 428, CNSV 315, GERN 281, 481, 482, HPED 413, MGMT 300, 311, PHIL 400, 405, PSYC 376, 378, RHAB 312, SAFE 380, SOC 336, 342, 345		9cr
Other Requirements:		3
Internship (GERN 493 or internship in student's major)		3cr

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Department of Safety Sciences

Chairperson: Lon H. Ferguson
Faculty: Cekada, Engler, Janicak, Rhodes, Rivers, Soule
Professors emeriti: Christensen, McClay, Pacalo

Website: www.iup.edu/safetysciences

Bachelor of Science–Safety Sciences Minor–Safety Sciences

The department offers a minor and a Bachelor of Science degree with a major in Safety Sciences with a focus on 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 45 credits in Safety Sciences and an additional 9 credits in related professional courses. A variety of elective courses is available in both the major and professional fields that enable students to strengthen their primary interest areas.

Bachelor of Science–Safety Sciences

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 105 Natural Science: CHEM 101-102 Social Science: PSYC 101 , SOC 151 , non-western culture required Liberal Studies Electives: 3cr, MATH 217 , no courses with SAFE prefix		48
Major:		45
Required Courses:		
SAFE 101	Introduction to Occupational Safety and Health	3cr
SAFE 111	Principles of Industrial Safety I	3cr
SAFE 211	Principles of Industrial Safety II	4cr
SAFE 212	Hazard Prevention Management I	3cr
SAFE 220	Hazardous Materials	3cr
SAFE 311	Fire Protection	3cr
SAFE 330	Recognition, Evaluation, and Control of Occupational Health Hazards I	4cr
SAFE 345	Systems Safety Analysis	3cr
SAFE 347	Ergonomics	3cr
SAFE 410	Environmental Safety and Health Regulations	3cr
SAFE 412	Hazard Prevention Management II	4cr
SAFE 430	Recognition, Evaluation, and Control of Occupational Health Hazards II	4cr
SAFE 488/493	Internship	6cr

Other Requirements:		21
Additional Science and Mathematics:		
BIOL 155	Human Physiology and Anatomy	4cr
PHYS 111	Physics I Lecture	3cr
PHYS 112	Physics II Lecture	3cr
PHYS 121	Physics I Lab	1cr
PHYS 122	Physics II Lab	1cr
Professional Courses:		
ACCT 200	Foundations of Accounting	3cr
BTST 321	Business and Interpersonal Communications	3cr
MGMT 311	Human Behavior in Organizations	3cr
Free Electives:		
		6
Total Degree Requirements:		120

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The minor in Safety Sciences consists of 18 credits in Safety Sciences courses as identified below. The minor in Safety Sciences has improved job opportunities for students in Environmental Health, Environmental Geoscience, Criminology, Human Resource Management, International Business, and Management.

Minor–Safety Sciences

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Required Courses:		
SAFE 101	Introduction to Occupational Safety and Health	3cr
SAFE 111	Principles of Industrial Safety I	3cr
SAFE 220	Hazardous Materials	3cr
Controlled Electives:		
Three SAFE courses approved by department chair		9cr

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Department of Anthropology

Chairperson: Philip D. Neusius
Faculty: Chaiken, Conelly, Garcia, Kruckman, S. Neusius
Professors emeriti: Lanham, Olin-Fahle

Website: www.iup.edu/anthropology

Bachelor of Arts–Anthropology

- [General Anthropology Track](#)
- [Anthropology/Archaeology Track](#)
- [Anthropology/Applied Anthropology Track](#)

[Bachelor of Science in Education–Social Science Education/Anthropology Concentration](#)

[Minor–Anthropology](#)

[Anthropology Honors Program](#)

- [Requirements](#)
-

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, linguistic(s) anthropology, 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 ensures that students receive a strong foundation in all four subdisciplines of Anthropology while simultaneously permitting them a great deal of freedom to explore a variety of issues in Anthropology and to tailor the curriculum to the students' own interests. The General Track is suitable for any Anthropology major or students seeking to double major in Anthropology.

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. This track usually is the preferred option for students intending to pursue archaeology at the graduate level as well. Students in this track take archaeological methods, theory, and area courses as well as Anthropology core courses and electives. 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 to be certified in the teaching of 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.

Anthropology Honors Program

The honors program is open by departmental permission to declared Anthropology majors with a minimum 3.25 cumulative GPA and a 3.25 GPA in Anthropology courses. Students complete [ANTH 483](#); [CHSS 489](#) (a multidisciplinary colloquium emphasizing problem-solving, discussion, reading, and writing on a topic or theme); and [HNRC 499](#), which fulfills the Liberal Studies Synthesis requirement. To determine how honors track courses will be integrated into existing requirements for the Anthropology major, students should consult their advisors.

To apply, students must petition the department honors committee for admission no earlier than the completion of the sophomore year. An application must be filed with the chairperson of the Department of Anthropology and should include an application form, a letter of intent, a description of the work plan, a full transcript, and two letters of recommendation from faculty members.

Bachelor of Arts–General Anthropology Track

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 217 Social Science: GEOG 104 (recommended) Liberal Studies Electives: 9cr, no courses with ANTH prefix	53
College: Foreign Language Intermediate Level (1)	0-6
Major: Required Courses: ANTH 211 Cultural Anthropology ANTH 222 Biological Anthropology ANTH 233 Language and Culture ANTH 244 Basic Archaeology ANTH 456 or ANTH 425 Ethnographic Research Methods <i>or</i> Archaeology Theory and Research Design ANTH 480 Anthropology Seminar	36
Controlled Electives: Two courses in Topical Area Ethnography such as ANTH 271 , 272 , 273 , 274 , 314 , 370 Three additional ANTH electives (300 or 400 level) One additional ANTH elective (any level)	6cr 9cr 3cr
Free Electives: (2)	25-31
Total Degree Requirements:	120
(1) Intermediate-level Foreign Language may be included in Liberal Studies electives. (2) State System Board of Governors' policy states that at least 40 percent of the coursework in a degree must consist of courses numbered 300 and above.	

Bachelor of Arts–Anthropology/Archaeology Track

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 217 Natural Science: GEOS 121-122 and 131-132 (recommended) Social Science: ANTH 213 , GEOG 104 (recommended) Liberal Studies Electives: 9cr, no courses with ANTH prefix	54
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College:		0-6
Foreign Language Intermediate Level (1)		
Major:		39
Required Courses:		
ANTH 211	Cultural Anthropology	3cr
ANTH 222	Biological Anthropology	3cr
ANTH 233	Language and Culture	3cr
ANTH 244	Basic Archaeology	3cr
Controlled Electives: Three methods courses:		
ANTH 320	Archaeological Field School (2, 3)	6cr
ANTH 325	Archaeological Lab Methods	3cr
ANTH 415	Cultural Resource Management	3cr
Two theory courses: ANTH 425 and 480		3cr
One archaeology area course such as ANTH 315 or 323		3cr
Any two anthropology courses from the following: ANTH 271/272/273/274 , ANTH 314 , 318 , 370 , 420 , 484 (3), or 485 (3)		6cr
Free Electives: (4, 5)		21-27
Total Degree Requirements:		120
<p>(1) Intermediate-level Foreign Language may be included in Liberal Studies electives.</p> <p>(2) With departmental approval, an equivalent field school with lab component from another university may be used.</p> <p>(3) May be repeated for credit with departmental approval, but may only count once toward the requirements of the Archaeology Track.</p> <p>(4) A minor in Geoscience, Geography, History, or other approved field is recommended. An internship (ANTH 493) also is recommended. Your advisor should be consulted.</p> <p>(5) State System Board of Governors' policy states that at least 40 percent of the coursework in a degree must consist of courses numbered 300 and above.</p>		

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Bachelor of Arts–Anthropology/Applied Anthropology Track

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 217 Social Science: GEOG 104 (recommended) Liberal Studies Electives: 9cr, no courses with ANTH prefix		53
College:		0-6
Foreign Language Intermediate Level (1)		
Major:		36
Required Courses:		
ANTH 211	Cultural Anthropology	3cr
ANTH 222	Biological Anthropology	3cr
ANTH 233	Language and Culture	3cr
ANTH 244	Basic Archaeology	3cr
Two methods courses: ANTH 360 , 456		6cr
One theory course: ANTH 480		3cr
Controlled Electives:		
One area course from the following: ANTH 271 , 272 , 273 , 274 , 314 , 370		3cr
Two additional ANTH electives (300 or 400 level)		6cr
ANTH 493 or ANTH 460	Internship in Anthropology <i>or</i> Ethnographic Field School (2)	6cr

Free Electives: (3)	25-31
Total Degree Requirements:	120
<p>(1) Intermediate-level Foreign Language may be included in Liberal Studies electives.</p> <p>(2) An internship or ethnographic field school is highly desirable but may be replaced by 6cr of pragmatic skill courses upon approval of the advisor.</p> <p>(3) State System Board of Governors' policy states that at least 40 percent of the coursework in a degree must consist of courses numbered 300 and above.</p>	

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Bachelor of Science in Education–Social Science Education/Anthropology Concentration (*)

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Humanities/History: fulfilled by required courses in major Mathematics: 3cr Natural Science: BIOL 103-104 or two of the following: GEOS 101-102, 103-104, 105-106 Social Science: ANTH 211, ECON 121, PSYC 101 Liberal Studies Electives: 6cr, PSYC 310 or 330, SOC 362 or 363, no courses with ANTH prefix	48
College:	32
3 additional cr of MATH 100 level or above (in addition to Liberal Studies Mathematics) (1)	3cr
Preprofessional Education Sequence:	
COMM 103 Digital Instructional Technology	3cr
EDSP 102 Educational Psychology	3cr
Professional Education Sequence:	
EDEX 301 Education of Students with Disabilities in Inclusive Secondary Settings	2cr
EDSP 477 Assessment of Student Learning: Design and Interpretation of Educational Measures	3cr
EDUC 242 Pre-student Teaching Clinical Experience I	1cr
EDUC 342 Pre-student Teaching Clinical Experience II	1cr
EDUC 441 Student Teaching	12cr
EDUC 442 School Law	1cr
EDUC 455 Teaching of Social Studies in Secondary Schools	3cr
Major:	
Required Anthropology Courses:	21
ANTH 211 Cultural Anthropology (2)	*cr
ANTH 213 World Archaeology	3cr
ANTH 222 Biological Anthropology	3cr
One additional subdisciplinary course:	
ANTH 233 <i>or</i> ANTH 244 Language and Culture <i>or</i> Basic Archaeology	3cr
Two area ethnography courses from the following: ANTH 271, 272, 273, 274, 314, 370	
Two additional Anthropology courses numbered 300 or above	6cr
History Distributional Requirements:	
HIST 202 Western Civilization Since 1600	3cr
HIST 204 United States History to 1877	3cr
HIST 205 United States History Since 1877	3cr
Social Science Distribution Requirements:	
GEOG 230 Cultural Geography	3cr
PLSC 280 <i>or</i> PLSC 285 Comparative Government I: Western Political Systems <i>or</i> Comparative Government II: Non-Western Political Systems	3cr

SOC 151 <i>or</i> SOC 231	Principles of Sociology <i>or</i> Contemporary Social Problems	3cr	
Free Electives:			1
Total Degree Requirements:			120
(*) See requirements leading to teacher certification, titled " 3-Step Process for Teacher Education ," in the College of Education and Educational Technology section of this catalog.			
(1) Students are required to take an additional 3cr of MATH beyond the Liberal Studies requirements for a total of 6cr, all of which must be 100 level or above.			
(2) Courses counted toward Liberal Studies credits do not receive duplicate credit in major.			

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Minor–Anthropology

15

Required Course:			
ANTH 110	Contemporary Anthropology	3cr	
Controlled Electives:			
Four additional courses in Anthropology		12cr	

Anthropology Honors Track

12

Prerequisites: Declared major in Anthropology, completion of 60cr and permission of department honors committee, academic advisor, and department chair			
Required Courses:			
ANTH 483/H/	Honors Thesis in Anthropology	6cr	
CHSS 489/H/	Honors Colloquium	3cr	
HNRC 499	Honors Senior Synthesis	*cr (1)	
(1) Credits for HNRC 499 are counted in the Liberal Studies Synthesis requirement.			

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Department of Economics

Chairperson: Nicholas Karatjas
Faculty: Dyal, J. Jozefowicz, S. Jozefowicz, Julian, Potts, Radell, Yerger
Professors emeriti: Martel, Stonebraker, Walker

Website: www.iup.edu/economics

Bachelor of Arts

- Economics
- Economics/Pre-Law Track
- Economics/Mathematics

B.S.Ed.–Social Studies Education/Economics Track

Minor–Economics

Economics Honors Program

- Program Requirements
-

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 degree in Economics provides a liberal arts 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 degree with a major in Economics that prepares students for immediate employment or graduate school; a Bachelor of Arts degree with a major in Economics/Pre-Law track for students who wish to attend law school; a Bachelor of Arts degree with a major in Economics/Mathematics combining courses in both areas to prepare students for graduate study in economics or possible immediate employment; and the Bachelor of Science in Education that prepares students to teach economics and other social sciences in secondary schools.

Either [ECON 101](#) or [121](#) counts as a Liberal Studies social science course. However, [ECON 101](#) is intended for students who will take only one course in the field. Students who anticipate taking more than one economics course should schedule [ECON 121](#). [ECON 101](#) 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, Business Administration, Mathematics, or Applied Statistics.

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. Dr. James J. Jozefowicz and Dr. Stephanie M. Jozefowicz are co-directors of the center.

Economics Honors Program

The honors program is open by departmental permission to Economics, Economics/Mathematics, and Economics/Pre-Law majors in the College

of Humanities and Social Sciences with a minimum 3.25 cumulative GPA and a 3.25 GPA in Economics courses. Students complete [ECON 355](#), [356](#), [483](#), and [HNRC 499](#), which fulfills the Liberal Studies Synthesis requirement. Students must earn at least a C in each course completed for the track. Students should consult their advisors to determine how honors track courses will be integrated into existing requirements for the Economics, Economics/Mathematics, or Economics/Pre-Law majors.

To apply, an application should be filed with the chairperson of the Department of Economics.

Bachelor of Arts–Economics

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 121 (1) Social Science: ECON 121 Liberal Studies Electives: 9cr, no courses with ECON prefix		54
College: Foreign Language Intermediate Level (2)		0-6
Major:		27
Required Courses:		
ECON 122	Principles of Microeconomics	3cr
ECON 355	Statistics for Economists (3)	3cr
ECON 421	Macroeconomic Analysis	3cr
ECON 422	Microeconomic Analysis	3cr
Controlled Electives:		
Five other ECON courses (4, 5)		15cr
Free Electives:		33-39
Total Degree Requirements:		120
<p>(1) MATH 115 or 123 may be substituted for MATH 121. (2) Intermediate-level Foreign Language may be included in Liberal Studies electives. (3) MATH 214, 217, or 363 may be substituted for ECON 355. (4) No more than 6cr of internship credit may be applied toward major. (5) No more than two ECON Controlled Electives may be a 200-level course.</p>		

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Bachelor of Arts–Economics/Pre-Law Track

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 121 (1) Social Science: ECON 121 Liberal Studies Electives: 9cr, no courses with ECON prefix		54
College: Foreign Language Intermediate Level (2)		0-6
Major:		24
Required Courses:		
ECON 122	Principles of Microeconomics	3cr
ECON 355	Statistics for Economists (3)	3cr
ECON 421	Macroeconomic Analysis	3cr
ECON 422	Microeconomic Analysis	3cr
Controlled Electives:		

Four other ECON courses (4, 5)	12cr
Other Requirements: Pre-Law Interdisciplinary Track	6-21
Seven courses, including at least one from each of six areas: <i>Business:</i> ACCT 201 , ACCT 202 , BLAW 235 <i>Criminology:</i> CRIM 210 , 215 , 255 <i>English:</i> ENGL 212 , 220 , 310 <i>History:</i> HIST 320 , 321 , 346 <i>Philosophy:</i> PHIL 101 , 222 , 450 <i>Political Science:</i> PLSC 358 , 359 , 361	
Free Electives:	15-36
Total Degree Requirements:	120
(1) MATH 115 or 123 may be substituted for MATH 121 . (2) Intermediate-level Foreign Language may be included in Liberal Studies electives. (3) MATH 214 , 217 , or 363 may be substituted for ECON 355 . (4) No more than 6cr of internship credit may be applied toward major. (5) No more than one ECON Controlled Elective may be a 200-level course.	

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Bachelor of Arts–Economics/Mathematics

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 123 Social Science: ECON 121 Liberal Studies Electives: 9cr, no courses with ECON or MATH prefix	54
Major:	46-48
Core:	
ECON 122 Principles of Microeconomics	3cr
ECON 421 Macroeconomics Analysis	3cr
ECON 422 Microeconomics Analysis	3cr
MATH 124 Calculus II for Physics, Chemistry, and Mathematics	4cr
MATH 171 Introduction to Linear Algebra	3cr
MATH 216 or ECON 355 Probability and Statistics for Natural Sciences <i>or</i> Statistics for Economists	3-4cr
Economics Electives: (1, 2)	12cr
Students are especially encouraged to take ECON 334 and 356 , but any course except ECON 101 may be used.	
Mathematics Electives:	15-16cr
At least one of the following two-semester sequences: MATH 241 and 371 , MATH 363 and 364 , or MATH 445 and 446	
Three additional courses either from the above or from the following: MATH 271 , 272 , 342 , 417 or 418 , 421 , 422 , 423 , 425 , 427 , 451 , 465 , 476 , 477	
Other Requirements: College:	0-6
Foreign Language Intermediate Level (3)	
Free Electives:	12-20
Total Degree Requirements:	120
(1) No more than 6cr of internship credit may be applied toward major. (2) No more than one ECON Controlled Elective may be a 200-level course. (3) Intermediate-level Foreign Language may be included in Liberal Studies electives.	

Bachelor of Science in Education–Social Studies Education/Economics Track (*)

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: 3cr Social Science: ANTH 110 , ECON 121 , and PSYC 101 Liberal Studies Electives: 6cr, GEOG 230 , no courses with ECON prefix		48
College: 3 additional cr of MATH 100 level or above (in addition to Liberal Studies MATH) (1)		3cr
Preprofessional Education Sequence:		
COMM 103	Digital Instructional Technology	3cr
EDSP 102	Educational Psychology	3cr
Professional Education Sequence:		
EDEX 301	Education of Students with Disabilities in Inclusive Secondary Settings	2cr
EDSP 477	Assessment of Student Learning: Design and Interpretation of Educational Measures	3cr
EDUC 242	Pre-student Teaching Clinical Experience I	1cr
EDUC 342	Pre-student Teaching Clinical Experience II	1cr
EDUC 441	Student Teaching	12cr
EDUC 442	School Law	1cr
EDUC 455	Teaching of Social Studies in Secondary Schools	3cr
Major:		18
Required Courses:		
ECON 122	Principles of Microeconomics	3cr
Controlled Electives:		
Upper-level Economics courses including at least one writing-intensive course and at least one course from each of the following three groups: <i>International courses:</i> ECON 339 , 345 , 346 , 350 , 351 <i>Macroeconomic courses:</i> ECON 325 , 326 , 343 , 421 <i>Microeconomic courses:</i> ECON 330 , 331 , 332 , 333 , 334 , 335 , 336 , 361 , 373 , 383		15cr
Other Requirements:		21
Social Studies Distribution:		
GEOG XXX	200-level or higher Geography course	3cr
HIST 204	United States History to 1877	3cr
HIST 205	United States History Since 1877	3cr
PLSC 111	American Politics	3cr
PLSC 280 or PLSC 285	Comparative Government I: Western Political Systems <i>or</i> Comparative Government II: Non-Western Political Systems	3cr
Social Studies Minor (2)		6cr
Free Electives:		1
Total Degree Requirements:		120
(*) See requirements leading to teacher certification, titled " 3-Step Process for Teacher Education ," in the College of Education and Educational Technology section of this catalog. In order to student teach, students must have a 3.0 cumulative GPA in their major (social studies and economics courses). To be licensed to teach History, Geography, Economics, Civics, and Government, Social Studies Education/Economics Track majors must apply for Citizenship Education certification.		
(1) Students are required to take an additional 3cr of MATH beyond the Liberal Studies requirement for a total of 6cr, all of which must be at the 100 level or above.		

(2) History is the recommended choice for a minor. However, students may complete a minor in any of the other Social Studies fields included in the Citizenship Education certification. Choosing a field other than history may require additional credits.

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Minor–Economics

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Required Courses:

ECON 121	Principles of Macroeconomics	3cr	
ECON 122	Principles of Microeconomics	3cr	
Three courses from ECON 200 or higher		9cr	

Economics Honors Track

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Required Courses:

ECON 355	Statistics for Economists	3cr	
ECON 356/H/	Introduction to Econometrics	3cr	
ECON 483/H/	Honors Thesis in Economics	3cr	
HNRC 499	Honors Senior Synthesis	*cr (1)	

(1) Credits for [HNRC 499](#) are counted in the Liberal Studies Synthesis requirement.

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Department of English

Chairperson: Gail I. Berlin

Faculty: Alvine, Bell, Berlin, Black, Cahalan, Camp, Carse, Chow, Comfort, Craig, Dandurand, Downing, Dube, Emerick, Farrington, Fontaine, Gatti, Gebhard, Goebel, Hanauer, Hayward, Himes, Hurlbert, S. F. Johnson, Kerr, Kraszewski, Kuipers, Marsden, Masiello, McAndrew, McClenahan, Miller, Nienkamp, Norris, Orchard, Pagnucci, Perdue, Powers, Rafoth, Savova, Sell, Shafer, Sherwood, Sitler, Slater, Smits, Stilwell, Tannacito, Villa, Ware, Watson, Welsh, M. M. Williamson, M. T. Williamson, Wilson, Yang

Professors emeriti: Aghbar, Bencich, Betts, Bower, J. Bright, L. Bright, Craig, Davis, Freund, Gray, Hayward, B. Hudson, S. Hudson, Krupnik, McPherson, Miller, Nania, Ray, Roffman, Roumm, Seinfeld, Smith, Swigart, Vella, Watta, J. Wilson, K. Wilson, Woodworth

Website: www.iup.edu/english

English Humanities

Minor in English

Bachelor of Arts–English

Bachelor of Arts–English/Pre-Law Track

- Program Requirements

Education Program

- Bachelor of Science in Education–English Education

English Honors Program

- Program Requirements
-

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 degree with a major 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.

English Humanities

The English Department's Bachelor of Arts degree 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 credits 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 International Literatures Course (Category D)
- one Major Western 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 credits of coursework, students have 25-31 credits 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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English/Pre-Law Track

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.

Education Program

The English Department offers a program leading to the Bachelor of Science in Education degree with a major in English Education. This program has been accredited by the National Council for Accreditation of Teacher Education. Graduates are prepared to teach in middle, junior high, and senior high schools.

English Education majors fulfill all of 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 best prepared for the secondary school classroom, those who opt not to teach will find that their speaking, writing, and management skills may also be useful to the media, governmental services, and business.

Program requirements are available at the English Department office and in the *English Education Handbook*. Majors must maintain a minimum cumulative GPA of 3.0. They must be formally admitted to English Education, a process that includes application and screening within the English Department as well as an application to the Teacher Certification Program in the College of Education. 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*.

Minor in English

To minor in English, 15 credits in English courses are required beyond the Liberal Studies requirement of ENGL 101, 121, and 202. Of these 15 credits, no more than 6 credits may be transferred to IUP from another university.

Students who choose to minor in English should, if their major department concurs, substitute ENGL 122 for 121.

English Honors Program

The honors program is open by departmental permission to declared English majors with a minimum 3.25 cumulative GPA and a 3.5 GPA in English courses. To determine how honors track courses will be integrated into existing requirements for the English major, students should consult their advisors or a member of the English honors track program committee (HTP).

To apply, students must submit a letter of application, a list of English courses taken (with instructors' names), and a portfolio demonstrating high-quality work in English courses, to the HTP. To be accepted, students must receive favorable evaluations from a majority of professors of courses taken and portfolio approval by the HTP committee.

Students complete [ENGL 480](#)/H/ Distinction in English Seminar, [HNRC 499](#), which fulfills the Liberal Studies Synthesis requirement, and 6 credits in any combination of the following: [ENGL 483](#) (0-6 cr) and 0-6 credits of H-designated major courses, 3 credits of which must be upper-level. Students must earn at least a B in each course completed for the honors track.

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Bachelor of Arts–English

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Humanities–Literature: ENGL 122 Mathematics: 3cr Liberal Studies Electives: 9cr, no courses with ENGL prefix	53
College: Foreign Language Intermediate Level (1)	0-6
Major: Required Courses:	36
ENGL 210 British Literature to 1660	3cr
ENGL 211 British Literature 1660-1900	3cr
ENGL 212 American Literature: Beginnings to 1900	3cr
ENGL 213 British and American Literature Since 1900	3cr
Controlled Electives: (2, 3)	24cr
One course from Category A (Period): ENGL 301, 302, 303, 304, 305, 306, 307, 315, 316, 317, 319	3cr
One course from Category B (Form and Theory of Genre): ENGL 208, 214, 215, 216, 217, 332, 335, 337, 338	3cr
One course from Category C (Alternative Literatures): ENGL 225, 344, 348, 385, 386, 396	3cr
One course from Category D (International Literatures): ENGL 349, 354, 387, 391, 393, 394, 395, 397, 398, 399	3cr
One course from Category E (Major Western Authors): ENGL 430, 432, 434, 436	3cr
One course from Category F (Writing, Speech, Linguistics): ENGL 220, 221, 310, 311, 312, 313, 320, 322, 325, 326, 329, 330, 333, 334, 336, 420, 422	3cr
Two courses from Category G: Any combination of 6cr from ENGL 281, 356, 357, 390, 401, 460, 461, 462, 481, 482, 493 , and/or any other courses listed above under categories A through F	6cr
Free Electives: (3)	25-31
Total Degree Requirements:	120
<p>(1) Intermediate-level Foreign Language may be included in Liberal Studies electives.</p> <p>(2) Any ENGL 281, 481, or 482 course must have prior approval from department chair if it is to apply to the student's major other than in Category G.</p> <p>(3) An internship, aside from counting for 6cr 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.</p>	

Bachelor of Arts–English/Pre-Law Track

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Humanities–Literature: ENGL 122 Mathematics: 3cr Liberal Studies Electives: 9cr, no courses with ENGL prefix	53
College: Foreign Language Intermediate Level (1)	0-6
Major:	36
Required Courses:	
ENGL 210 British Literature to 1660	3cr
ENGL 211 British Literature 1660-1900	3cr
ENGL 212 American Literature: Beginnings to 1900	3cr
ENGL 213 British and American Literature Since 1900	3cr
Controlled Electives: (2, 3)	24cr
One course from Category A (Period): ENGL 301, 302, 303, 304, 305, 306, 307, 315, 316, 317, 319	3cr
One course from Category B (Form and Theory of Genre): ENGL 208, 214, 215, 216, 217, 332, 335, 337, 338	3cr
One course from Category C (Alternative Literatures): ENGL 225, 344, 348, 385, 386, 396	3cr
One course from Category D (International Literatures): ENGL 349, 354, 387, 391, 393, 394, 395, 397, 398, 399	3cr
One course from Category E (Major Western Authors): ENGL 430, 432, 434, 436	3cr
One course from Category F (Writing, Speech, Linguistics): ENGL 220, 221, 310, 311, 312, 313, 320, 322, 325, 326, 329, 330, 333, 334, 336, 420, 422	3cr
Two courses from Category G: Any combination of 6cr from ENGL 281, 356, 357, 390, 401, 460, 461, 462, 481, 482, 493, and/or any other courses listed above under categories A through F	6cr
Other Requirements: Pre-Law interdisciplinary track	3-21
Seven courses, including at least one from each of six areas: <i>Business:</i> ACCT 201, ACCT 202, BLAW 235 <i>Criminology:</i> CRIM 210, 215, 255 <i>Economics:</i> ECON 121, 122, 332 <i>History:</i> HIST 320, 321, 346 <i>Philosophy:</i> PHIL 101, 222, 450 <i>Political Science:</i> PLSC 358, 359, 361	
Free Electives: (3)	4-28
Total Degree Requirements:	120
(1) Intermediate-level Foreign Language may be included in Liberal Studies electives. (2) Any ENGL 281, 481, or 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.	

Bachelor of Science in Education–English Education (*)

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Humanities-Literature: ENGL 122 Mathematics: 6cr, MATH 101 or higher (1) Natural Science: Option I recommended (Option II also permitted, but will exceed credit limit) Social Science: PSYC 101 Liberal Studies Electives: 0cr			48
College: Foreign Language Intermediate Level (2)			6
College:			29
Preprofessional Education Sequence:			
COMM 103	Digital Instructional Technology	3cr	
EDSP 102	Educational Psychology	3cr	
Professional Education Sequence:			
EDEX 301	Education of Students with Disabilities in Inclusive Secondary Settings	2cr	
EDSP 477	Assessment of Student Learning: Design and Interpretation of Educational Measures	3cr	
EDUC 242	Pre-student Teaching Clinical Experience I	1cr	
EDUC 342	Pre-student Teaching Clinical Experience II	1cr	
EDUC 441	Student Teaching	12cr	
EDUC 442	School Law	1cr	
EDUC 452	Teaching of English and Communication in the Secondary School	3cr	
Major:			37
Required Courses:			
ENGL 212	American Literature: Beginnings to 1900	3cr	
ENGL 220	Advanced Composition I	3cr	
ENGL 314	Speech and Communication in the Secondary English Classroom	3cr	
ENGL 318	Literature for Adolescents	3cr	
ENGL 323	Teaching Literature and Reading in the Secondary School	3cr	
ENGL 324	Teaching and Evaluating Writing	3cr	
ENGL 329	The History of the English Language	1cr	
ENGL 330	The Structure of English	3cr	
ENGL 434	Shakespeare	3cr	
Controlled Electives:			
Choose one Genre course from Category B		3cr	
Choose one British Literature Survey: ENGL 210, 211		3cr	
Choose one Alternative Literature course from Category C		3cr	
Choose one general English elective (any category)		3cr	
Total Degree Requirements:			120
(*) See requirements leading to teacher certification, titled " 3-Step Process for Teacher Education ," in the College of Education and Educational Technology section of this catalog.			
(1) The second MATH course is a teacher certification requirement and counts as Liberal Studies credits for Mathematics.			
(2) If a student is able to exempt this requirement, an additional 6cr of free electives are necessary. Students with no previous foreign language background, or those who lack proficiency, will need to take the entry-level courses, which will increase the total number of cr required for the degree.			

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Prerequisites: Declared major in English, completion of [ENGL 101](#), [122](#), and [202](#); 15cr in the major, including at least two survey courses; and permission of English honors track program committee

Required Courses:

ENGL 480/H/	Distinction in English Seminar	3cr
HNRC 499	Honors Senior Synthesis	*cr (1)
6cr in any combination of the following options:		
ENGL 483/H/	Honors Thesis in English	0-6cr
Any H-designated English course (2)		0-6cr

(1) Credits for [HNRC 499](#) are counted in the Liberal Studies Synthesis requirement.

(2) If 6cr of H-designated coursework is the option chosen, then one of those H-designated courses must be 300- or 400-level.

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Department of French and German

Chairperson: Charles R. McCreary
Faculty: Henry, Sullivan, Wallaert, Witthoef
Professors emeriti: Fisel, Ready, Whitmer

Website: www.iup.edu/french-german

French	German
Bachelor of Arts–French	Bachelor of Arts–German
Bachelor of Arts–French for International Trade	Bachelor of Arts–German for International Trade
Bachelor of Science in Education–K-12 French Education	Bachelor of Science in Education–Secondary German Education
Minor–French	Minor in German
French Honors Program • Program Requirements	College Language Requirements
College Language Requirements	Study Abroad
Internships	
Placement/Exemption	
Study Abroad–Nancy, France	

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. degree with a major in French, the B.A. degree with a major in French for International Trade, and the B.S.Ed. degree with a major 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.

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 ([RNC 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 3-credits-per-semester courses or the accelerated 6-credit track.

Placement/Exemption

The student with no previous French study will take [FRNC 101](#) (4cr) 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 [FRNC 254](#).

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.

French Honors Program

The honors program is open by departmental permission to French majors with a minimum 3.25 cumulative GPA and a 3.25 GPA in French courses. To apply, students must have at least 57 credits earned and must submit two letters of reference from French faculty members and a two-page self-statement describing the student's academic and career goals.

Students complete [FRNC 483/H/](#); one literature course from [FRNC 301](#) or above; [CHSS 489](#) (a multidisciplinary colloquium emphasizing problem-solving, discussion, reading, and writing on a topic or theme); and [HNRC 499](#), which fulfills the Liberal Studies Synthesis requirement. Students must earn at least a B in each course completed for the honors track.

To determine how honors track courses will be integrated into existing requirements for the French majors, students should consult their advisors.

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 credits) is viewed as a highly desirable culminating experience following study in Nancy. For information, contact the department at least six months in advance.

Bachelor of Arts–French

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: 3cr Liberal Studies Electives: 9cr, no courses with FRNC prefix	53
College: Foreign Language (included in major)	0
Major: Required Courses:	36
FRNC 202 College French II	3cr
FRNC 254 Civilization of Modern France	3cr
FRNC 331 Intermediate French Conversation	3cr
FRNC 341 French Grammar	3cr
FRNC 353 Intermediate French Composition	3cr
FRNC 370 Introduction to French Literature	3cr
FRNC 373 French Civilization	3cr
FRNC 375 French Literature from Medieval through Seventeenth Century	3cr
FRNC 376 French Literature from Eighteenth through Twentieth Century	3cr
FRNC 441 Advanced French Grammar	3cr
Controlled Electives:	
One course from: FRNC 431 , 432 , 460 , 462 , 463	3cr
Any other 3cr from FRNC 253 and above (or study abroad)	3cr

Free Electives:	31
Total Degree Requirements:	120

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Bachelor of Arts–French for International Trade

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: 3cr, except MATH 217 Social Science: ECON 121 , PLSC 101 , PSYC 101 Liberal Studies Electives: 9cr, BTED/COSC/IFMG 101 , ECON 122 , MATH 214 , no course with FRNC prefix	54
College: Foreign Language (included in major)	0
Major: Required Courses:	36
FRNC 202 College French II	3cr
FRNC 254 Civilization of Modern France	3cr
FRNC 331 Intermediate French Conversation	3cr
FRNC 341 French Grammar	3cr
FRNC 353 Intermediate French Composition	3cr
FRNC 354 Business French	3cr
FRNC 370 Introduction to French Literature	3cr
FRNC 373 French Civilization	3cr
FRNC 441 Advanced French Grammar	3cr
Controlled Electives: (1) One course from: FRNC 375 , 376 Two additional FRNC electives (advanced levels)	6cr
Other Requirements: Business Sequence: (2)	24
ACCT 201 Accounting Principles I	3cr
ACCT 202 Accounting Principles II	3cr
BLAW 235 Legal Environment of Business	3cr
BTST 321 Business and Interpersonal Communications	3cr
FIN 310 Fundamentals of Finance	3cr
MGMT 310 Principles of Management	3cr
MGMT 350 International Business	3cr
MKTG 320 Principles of Marketing	3cr
Free Electives:	6
Total Degree Requirements:	120
(1) Most students earn additional language credits (up to 18) in semester or year abroad programs. (2) Students not majoring in business may count a maximum of 30cr in business coursework toward the 120cr-degree minimum. Business credits in excess of 30 will be permitted only as credits beyond the 120 required for graduation.	

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Bachelor of Science in Education—K-12 French Education (*)

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Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: 6cr, MATH 101 or higher Social Science: ANTH 110 , PSYC 101 Liberal Studies Electives: 3cr, no courses with FRNC prefix	50
College:	29
Professional Education Sequence:	
COMM 103 Digital Instructional Technology	3cr
EDSP 102 Educational Psychology	3cr
Professional Education Sequence:	
EDEX 301 Education of Students with Disabilities in Inclusive Secondary Programs	2cr
EDSP 477 Assessment of Student Learning: Design and Interpretation of Educational Measures	3cr
EDUC 242 Pre-student Teaching Clinical Experience I	1cr
EDUC 342 Pre-student Teaching Clinical Experience II	1cr
EDUC 441 Student Teaching	12cr
EDUC 442 School Law	1cr
EDUC 453 Teaching of Foreign Languages in the Secondary School (1)	3cr
Major:	36
Required Courses:	
FRNC 202 College French II	3cr
FRNC 331 Intermediate French Conversation	3cr
FRNC 341 French Grammar	3cr
FRNC 353 Intermediate French Composition	3cr
FRNC 370 Introduction to French Literature	3cr
FRNC 373 French Civilization	3cr
FRNC 390 Teaching Elementary School Content in French and German	3cr
FRNC 432 French Phonetics and Phonology	3cr
FRNC 441 Advanced French Grammar	3cr
Controlled Electives:	
Any other 9cr from FRNC 253 and above	9cr
Free Electives:	5
Total Degree Requirements:	120
(*) See requirements leading to teacher certification, titled " 3-Step Process for Teacher Education ," in the College of Education and Educational Technology section of this catalog. (1) EDUC 453 is offered only in fall semester.	

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Minor–French

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Required Courses:		
FRNC 201 College French I		3cr
FRNC 202 College French II		3cr
FRNC 331 Intermediate French Conversation		3cr
FRNC 341 French Grammar		3cr
FRNC 353 Intermediate French Composition		3cr
FRNC 370 Introduction to French Literature		3cr
Controlled Elective:		
One course from: FRNC 253 , 373 , 375 , 376 , 431 , 432		3cr

Required Courses:		
CHSS 489/H/	Honors Colloquium	3cr
FRNC 483/H/	Honors Thesis in French	3cr
HNRC 499	Honors Senior Synthesis	*cr (1)
FRNC XXX	One additional literature elective from FRNC 301 and above	3cr
(1) Cr for HNRC 499 are counted in the Liberal Studies Synthesis requirement.		

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German

(NOTE: The German programs may be under revision this year. Please contact the Department of French and German or the College of Humanities and Social Sciences for further information.)

For the German major, the department has three degree programs: the B.A. degree with a major in German, the B.A. degree with a major in German for International Trade, and the B.S. in Education degree with a major in Secondary German Education.

While majoring in 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.

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 ([GRMN 251](#) and [252](#)) or demonstrate by the CLEP exam in German that they have acquired the equivalent proficiency level. Students from 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-credit courses or in the combined 6-credit courses.

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 credits per semester. For information regarding the cost and application procedures, contact the office of the dean of the College of Humanities and Social Sciences.

Minor in German

Students completing 18 credits beyond [GRMN 152](#) will be recognized as having minored in German. Nine of the twelve credits must be taken at the 300 level with only 3 credits from the conversation sequence, [GRMN 221](#), [222](#), [321](#), [322](#). This achievement will be noted on the student's transcript and thus provide more career flexibility.

Bachelor of Arts–German

Liberal Studies: As outlined in Liberal Studies section with the following specifications:	53
Mathematics: 3cr	
Liberal Studies Electives: 9cr, no courses with GRMN prefix	
College:	0

Foreign Language (included in major)			
Major:			36
Required Courses:			
GRMN 221	Conversation III		2cr
GRMN 222	Conversation IV		2cr
GRMN 251	German III		3cr
GRMN 252	German IV (1)		3cr
GRMN 321	Advanced Conversation I		1cr
GRMN 322	Advanced Conversation II		1cr
GRMN 351	Advanced German Language I		3cr
GRMN 352	Advanced German Language II		3cr
GRMN 361	Development of German Culture and Literature I		3cr
GRMN 362	Development of German Culture and Literature II		3cr
Controlled Electives:			
Other GRMN electives (advanced levels) (2)			12cr
Free Electives:			31
Total Degree Requirements:			120
(1) GRMN 253 or 254 may be substituted for GRMN 252 .			
(2) Department recommends at least one additional literature course (GRMN 363-371) and one linguistics course (GRMN 410 or in Germany).			

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Bachelor of Arts–German for International Trade

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: 3cr, any Liberal Studies Mathematics course except MATH 217 Social Science: ECON 121 Liberal Studies Electives: 9cr, BTED/COSC/IFMG 101 , ECON 122 , MATH 214 , no courses with GRMN prefix			54
College:			0
Foreign Language (included in major)			
Major:			36
Required Courses:			
GRMN 221	Conversation III		2cr
GRMN 222	Conversation IV		2cr
GRMN 251	German III		3cr
GRMN 252	German IV		3cr
GRMN 253	Intermediate Composition and Conversation		3cr
GRMN 254	Business German		3cr
GRMN 321	Advanced Conversation I		1cr
GRMN 322	Advanced Conversation II		1cr
GRMN 351	Advanced German Language I		3cr
GRMN 352	Advanced German Language II		3cr
GRMN 361	Development of German Culture and Literature I		3cr
GRMN 362	Development of German Culture and Literature II		3cr
Controlled Electives:			
Two additional GRMN electives (advanced levels) (1)			6cr
Other Requirements:			24
Business Sequence: (2)			

ACCT 201	Accounting Principles I	3cr
ACCT 202	Accounting Principles II	3cr
BLAW 235	Legal Environment of Business	3cr
BTST 321	Business and Interpersonal Communications	3cr
FIN 310	Fundamentals of Finance	3cr
MGMT 310	Principles of Management	3cr
MGMT 350	International Business	3cr
MKTG 320	Principles of Marketing	3cr
Free Electives:		6
Total Degree Requirements:		120
<p>(1) Most students earn additional language credits (usually 12-14) in semester study abroad.</p> <p>(2) Students not majoring in business may count a maximum of 30cr in business coursework toward the 120-credit degree minimum. Business credits in excess of 30 will be permitted only as credits beyond the 120 required for graduation.</p>		

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Bachelor of Science in Education–Secondary German Education (*)

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: 6cr, MATH 101 or higher Social Science: PSYC 101 Liberal Studies Electives: 3cr, no courses with GRMN prefix		50
College:		29
Preprofessional Education Sequence: (1)		
COMM 103	Digital Instructional Technology	3cr
EDSP 102	Educational Psychology	3cr
Professional Education Sequence: (1)		
EDEX 301	Education of Students with Disabilities in Inclusive Secondary Settings	2cr
EDSP 477	Assessment of Student Learning: Design and Interpretation of Educational Measures	3cr
EDUC 242	Pre-student Teaching Clinical Experience I	1cr
EDUC 342	Pre-student Teaching Clinical Experience II	1cr
EDUC 441	Student Teaching	12cr
EDUC 442	School Law	1cr
EDUC 453	Teaching of Foreign Languages in the Secondary School (1)	3cr
Major:		36
Required Courses:		
GRMN 221	Conversation III	2cr
GRMN 222	Conversation IV	2cr
GRMN 251	German III	3cr
GRMN 252	German IV	3cr
GRMN 321	Advanced Conversation I	1cr
GRMN 322	Advanced Conversation II	1cr
GRMN 351	Advanced German Language I	3cr
GRMN 352	Advanced German Language II	3cr
GRMN 361	Development of German Culture and Literature I	3cr
GRMN 362	Development of German Culture and Literature II	3cr
GRMN 390	Teaching Elementary School Content in French and German	3cr
Controlled Electives:		
Other GRMN electives		9cr

Free Electives:	5
Total Degree Requirements:	120
(*) See requirements leading to teacher certification, titled " 3-Step Process for Teacher Education ," in the College of Education and Educational Technology section of this catalog.	

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Department of Geography and Regional Planning

Chairperson: John E. Behnart, Jr.
Faculty: Begg, Bencloski, Buckwalter, Masilela, Okey, Patrick, G. Sechrist, R. Sechrist, Shirey, Watts
Professors emeriti: Forbes, Gault, Miller, Tepper, Weber

Website: www.iup.edu/geography

Bachelor of Arts–Geography

- [General Geography Track](#)
- [GIS and Cartographer Track](#)
- [Economic Geographer Track](#)
- [Geography/Environmental Geographer Track](#)

Bachelor of Science in Education–Social Studies Education/Geography Track

Bachelor of Science–Regional Planning

- [GIS and Cartographer Track](#)
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- [Environmental Planner Track](#)
- [Town Manager Track](#)

[Geography and Regional Planning Honors Programs](#)

- [Geography Honors Track requirements](#)
- [Regional Planning Honors Track requirements](#)

Regional Planning Honors Program

- Track requirements
-

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. Today, economic development has become an important focus for planners.

The geography track in social studies education offers a geography major equivalent for the student interested in teaching at the junior or senior high levels. The Pennsylvania certification will be in citizenship. 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 provides skills desperately needed in today's job market. Students interested in additional career information should visit the departmental office in Room 10, Leonard Hall or our website at www.iup.edu/geography.

Three degree programs are offered by the department: Bachelor of Arts degree with a major in Geography, Bachelor of Science degree with a major in Regional Planning, and Bachelor of Science in Education degree with a major in Social Studies Education/Geography Track.

In addition to the 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 Developer, 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 credits 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 Laboratory and the new Spatial Environmental Analysis Laboratory, offer access to advanced geographic analysis equipment and resources. The fully equipped laboratories house fifty workstations, large-format plotters, Global Positioning System units, and water and atmospheric monitoring devices. The most heavily used software includes ARC/INFO, ArcView, MapInfo, Atlas*GIS, IDRISI, AutoCad, and MiniCad. Geographic Information Systems, image processing, and computer-aided drafting software includes the Arc GIS software suite, MapInfo, IDRISI, MicroMSI, as well as MiniCad and VectorWorks.

The department also houses the Census Documents and Data Library, coordinated by departmental faculty. 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.

A strong internship program directed by Dr. Brian Okey 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.

Geography and Regional Planning Honors Programs

The honors program is open by departmental permission to Geography and Regional Planning majors with at least a 3.25 GPA in total university coursework and a 3.25 GPA in Geography or Regional Planning courses. After completing 57 credits, all qualified majors will be invited to join the Geography or Regional Planning Honors Track. Social Studies Education–Geography Track majors are encouraged to participate, with the realization that participation will require more than 120 credits.

Students complete [CHSS 489](#), a multidisciplinary colloquium emphasizing problem-solving, discussion, reading, and writing on a topic or theme; [GEOG 483](#) or [RGPL 483](#); and [HNRC 499](#), which fulfills the Liberal Studies Synthesis requirement. Students must maintain a 3.0 GPA in the track. To determine how Honors Track courses will be integrated into existing requirements for the Geography or Regional Planning major, students should consult their academic advisors.

To apply, students must submit a letter of intent that includes a two-page self-statement describing the student’s academic and career goals. Two Geography and Regional Planning faculty members must endorse the student’s application.

Bachelor of Arts–Geography/General Geography Track

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 121 or 217 Liberal Studies Electives: 9cr, no courses with GEOG prefix	53
College: Foreign Language Intermediate Level (1)	0-6
Major: Required Courses:	36
GEOG 213 Cartography I	3cr
GEOG 230 Cultural Geography	3cr
GEOG 231 Economic Geography	3cr
GEOG 411 History of Geography	3cr
GEOG 412 Research Seminar	3cr
Controlled Electives:	
One course from GEOG 251-257	3cr
One course from GEOG 341-342	3cr
Five courses (15cr) from any GEOG courses (only one GEOG 100 -level course permitted)	15cr
Free Electives:	25-31
Total Degree Requirements:	120
(1) Intermediate-level Foreign Language may be included in Liberal Studies electives.	

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Bachelor of Arts–Geography/GIS and Cartographer Track

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 121 or 217 Liberal Studies Electives: 9cr, BTED/COSC/IFMG 101 recommended, no courses with GEOG prefix	53
College:	0-6

Foreign Language Intermediate Level (1)		
Major:		36
Required Courses:		
GEOG 213	Cartography I	3cr
GEOG 230	Cultural Geography	3cr
GEOG 231	Economic Geography	3cr
GEOG 411	History of Geography	3cr
GEOG 412	Research Seminar	3cr
Controlled Electives:		
One course from GEOG 251-257		3cr
One course from GEOG 341-342		3cr
Track Courses:		
GEOG 313	Cartography II	3cr
GEOG 314	Map and Photograph Interpretation	3cr
GEOG 316	Introduction to Geographic Information Systems	3cr
GEOG 415	Remote Sensing	3cr
GEOG 417	Technical Issues in GIS	3cr
Free Electives:		25-31
Total Degree Requirements:		120
(1) Intermediate-level Foreign Language may be included in Liberal Studies electives.		

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Bachelor of Arts–Geography/Economic Geographer Track

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 121 or 217 Social Sciences: ECON 121 Liberal Studies Electives: 9cr, ECON 122 , no courses with GEOG prefix		53
College:		0-6
Foreign Language Intermediate Level (1)		
Major:		36
Required Courses:		
GEOG 213	Cartography I	3cr
GEOG 230	Cultural Geography	3cr
GEOG 231	Economic Geography	3cr
GEOG 411	History of Geography	3cr
GEOG 412	Research Seminar	3cr
Controlled Electives:		
One course from GEOG 251-257		3cr
One course from GEOG 341-342		3cr
Track Courses: Five courses from the following:		
GEOG 331	Population Geography	3cr
GEOG 332	Urban Geography	3cr
GEOG 333	Trade and Transportation	3cr
GEOG 334	Political Geography	3cr
GEOG 336	Social Geography	3cr
GEOG 464	Land Use Policy	3cr
Free Electives:		25-31
ECON 383	Urban/Regional Economics (recommended)	

Total Degree Requirements:	120
(1) Intermediate-level Foreign Language may be included in Liberal Studies electives.	

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Bachelor of Arts–Geography/Environmental Geographer Track

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 121 or 217 Liberal Studies Electives: 9cr, BTED/COSC/IFMG 101 recommended, no courses with GEOG prefix	53
College: Foreign Language Intermediate Level (1)	0-6
Major: Required Courses:	36
GEOG 213 Cartography I	3cr
GEOG 230 Cultural Geography	3cr
GEOG 231 Economic Geography	3cr
GEOG 411 History of Geography	3cr
GEOG 412 Research Seminar	3cr
Controlled Electives:	
One course from GEOG 251-257	3cr
One course from GEOG 341-342 (2)	3cr
Track Courses: Five courses from the following:	15cr
GEOG 314 Map and Photograph Interpretation	
GEOG 316 Introduction to Geographic Information Systems	
GEOG 335 Geography of Energy	
GEOG 341 Climatology	
GEOG 342 Physiography	
GEOG 343 Geography of Fresh Water Resources	
GEOG 345 Biogeography for Environmental Managers	
GEOG 415 Remote Sensing	
GEOG 440 Conservation: Environmental Analysis	
Free Electives:	25-31
Total Degree Requirements:	120
(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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Geography Honors Track

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Prerequisites: Declared major in Geography, completion of at least 57cr, and endorsement of two Geography faculty members		
Required Courses:		
CHSS 489/H/	Honors Colloquium	3cr
HNRC 499	Honors Senior Synthesis	*cr (1)
GEOG 483/H/	Honors Thesis in GEOG Planning	6cr (2)
(1) Credits for HNRC 499 are counted in the Liberal Studies Synthesis requirement.		

(2) Credits for [GEOG 483](#) are counted in the appropriate Departmental Track requirement.

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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 217 Liberal Studies Electives: 9cr, BTED/COSC/IFMG 101 recommended, no courses with RGPL prefix	53
College: Foreign Language Intermediate Level (1)	0-6
Major:	42
Required Courses in Planning:	
RGPL 213 Cartography I	3cr
RGPL 316 Introduction to Geographic Information Systems	3cr
RGPL 350 Introduction to Planning	3cr
RGPL 352 Planning Methods	3cr
RGPL 353 Planning Design I	3cr
RGPL 412 Research Seminar	3cr
RGPL 454 Planning Design II	3cr
RGPL 458 Land Use Law	3cr
RGPL 464 Land Use Policy	3cr
RGPL 468 Planning Theory	3cr
Track Courses:	
RGPL 313 Cartography II	3cr
RGPL 314 Map and Photograph Interpretation	3cr
RGPL 415 Remote Sensing	3cr
RGPL 417 Technical Issues in GIS	3cr
Free Electives:	19-25
RGPL 493 Internship (strongly recommended)	1-12cr
Total Degree Requirements:	120
(1) Intermediate-level Foreign Language may be included in Liberal Studies electives.	

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Bachelor of Science–Regional Planning/Economic Developer Track

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 121 or 217 Social Sciences: ECON 121 Liberal Studies Electives: 9cr, ECON 122 , no courses with RGPL prefix	53
College: Foreign Language Intermediate Level (1)	0-6
Major:	42
Required Courses in Planning:	
RGPL 213 Cartography I	3cr
RGPL 316 Introduction to Geographic Information Systems	3cr
RGPL 350 Introduction to Planning	3cr
RGPL 352 Planning Methods	3cr

RGPL 353	Planning Design I	3cr
RGPL 412	Research Seminar	3cr
RGPL 454	Planning Design II	3cr
RGPL 458	Land Use Law	3cr
RGPL 464	Land Use Policy	3cr
RGPL 468	Planning Theory	3cr
Track Courses: Four courses from the following:		
GEOG 231	Economic Geography	3cr
GEOG 331	Population Geography	3cr
GEOG 334	Political Geography	3cr
RGPL 332	Urban Geography	3cr
RGPL 333	Trade and Transportation	3cr
Free Electives:		19-25
RGPL 493	Internship (strongly recommended)	1-12cr
Total Degree Requirements:		120
(1) Intermediate-level Foreign Language may be included in Liberal Studies electives.		

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Bachelor of Science–Regional Planning/Environmental Planner Track

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 121 or 217 Liberal Studies Electives: 9cr, BTED/COSC/IFMG 101 recommended, no courses with RGPL prefix		53
College: Foreign Language Intermediate Level (1)		0-6
Major:		42
Required Courses in Planning:		
RGPL 213	Cartography I	3cr
RGPL 316	Introduction to Geographic Information Systems	3cr
RGPL 350	Introduction to Planning	3cr
RGPL 352	Planning Methods	3cr
RGPL 353	Planning Design I	3cr
RGPL 412	Research Seminar	3cr
RGPL 454	Planning Design II	3cr
RGPL 458	Land Use Law	3cr
RGPL 464	Land Use Policy	3cr
RGPL 468	Planning Theory	3cr
Track Courses: Four courses from the following:		
GEOG 335	Geography of Energy	3cr
GEOG 341	Climatology	3cr
GEOG 342	Physiography	3cr
GEOG 343	Geography of Fresh Water Resources	3cr
GEOG 345	Biogeography for Environmental Managers	3cr
GEOG 440	Conservation: Environmental Analysis	3cr
RGPL 314	Map and Photograph Interpretation	3cr
RGPL 415	Remote Sensing	3cr
Free Electives:		19-25
RGPL 493	Internship (strongly recommended)	1-12cr

Total Degree Requirements:	120
(1) Intermediate-level Foreign Language may be included in Liberal Studies electives.	

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Bachelor of Science–Regional Planning/Town Manager Track

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Social Science: PLSC 111 recommended Mathematics: MATH 121 or 217 Liberal Studies Electives: 9cr, BTED/COSC/IFMG 101 , GEOG 230 , no courses with RGPL prefix	53
College: Foreign Language Intermediate Level (1)	0-6
Major: Required Courses:	42
RGPL 213 Cartography I	3cr
RGPL 316 Introduction to Geographic Information Systems	3cr
RGPL 350 Introduction to Planning	3cr
RGPL 352 Planning Methods	3cr
RGPL 353 Planning Design I	3cr
RGPL 412 Research Seminar	3cr
RGPL 454 Planning Design II	3cr
RGPL 458 Land Use Law	3cr
RGPL 464 Land Use Policy	3cr
RGPL 468 Planning Theory	3cr
Track Courses: Either:	
PLSC 354 and PLSC 355 Metropolitan Problems and Intergovernmental Relations	3cr 3cr
Or:	
PLSC 370 and PLSC 371 Introduction to Public Administration and Issues in Public Administration	3cr 3cr
And two courses from the following:	6cr
GEOG 231 Economic Geography	
RGPL 332 Urban Geography	
RGPL 333 Trade and Transportation	
Free Electives:	19-25
PLSC 251 State and Local Political Systems (recommended)	3cr
RGPL 493 Internship (strongly recommended)	1-12cr
Total Degree Requirements:	120
(1) Intermediate-level Foreign Language may be included in Liberal Studies electives.	

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Regional Planning Honors Track

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Prerequisites: Declared major in Regional Planning, completion of at least 57cr, and endorsement of two Regional Planning faculty members	
Required Courses:	
CHSS 489/H/ Honors Colloquium	3cr

HNRC 499	Honors Senior Synthesis	*cr (1)
RGPL 483/H/	Honors Thesis in Regional Planning	6cr (2)
(1) Credits for HNRC 499 are counted in the Liberal Studies Synthesis requirement.		
(2) Credits for RGPL 483 are counted in the appropriate Departmental Track requirement.		

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Bachelor of Science in Education–Social Studies Education/Geography Track (*)

Liberal Studies: As outlined in Liberal Studies section with the following specifications:		48
Humanities-History: fulfilled by required courses in minor		
Mathematics: 6cr		
Social Science: ECON 121 , GEOG 102 , PSYC 101		
Liberal Studies Electives: 3cr, ECON 122 , no courses with GEOG prefix		
College:		29
Preprofessional Education Sequence:		
COMM 103	Digital Instructional Technology	3cr
EDSP 102	Educational Psychology	3cr
Professional Education Sequence:		
EDEX 301	Education of Students with Disabilities in Inclusive Secondary Settings	2cr
EDSP 477	Assessment of Student Learning: Design and Interpretation of Educational Measures	3cr
EDUC 242	Pre-student Teaching Clinical Experience I	1cr
EDUC 342	Pre-student Teaching Clinical Experience II	1cr
EDUC 441	Student Teaching	12cr
EDUC 442	School Law	1cr
EDUC 455	Teaching of Social Studies in Secondary Schools	3cr
Major:		24
Required Courses:		
GEOG 213	Cartography I	3cr
GEOG 230	Cultural Geography	3cr
Controlled Electives:		
At least two courses from each of the following three groups:		18cr
<i>Environmental Geography:</i> GEOG 341 , 342 , 343 , 345 , 440		
<i>Human Geography:</i> GEOG 231 , 331 , 332 , 333 , 334 , 335 , 336 , 337 , 431		
<i>Regional Geography:</i> GEOG 251 , 252 , 253 , 254 , 255 , 256 , 257		
Social Science Distribution Requirements:		18
HIST 201	Western Civilization Before 1600 (1)	3cr
HIST 202	Western Civilization Since 1600 (1)	3cr
HIST 204	United States History to 1877	3cr
HIST 205	United States History Since 1877	3cr
PLSC 111	American Politics	3cr
PLSC 280 or PLSC 285	Comparative Government I: Western Political Systems <i>or</i> Comparative Government II: Non-Western Political Systems	3cr
Free Elective:		1
Total Degree Requirements:		120
(*) See requirements leading to teacher certification, titled " 3-Step Process for Teacher Education ," in the College of Education and Educational Technology section of this catalog.		
(1) For students who have received credit for HIST 195 prior to becoming Social Studies Education majors, this course may not be appropriate. Consult advisor.		

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Department of History

Chairperson: Xi Wang

Faculty: Arpaia, Bailey, Baumler, Bodle, Botelho, Finegan, Franklin-Rahkonen, Lippert, Lu, Mannard, Moore, Ricketts, Schroeder, Whited, Zens

Professors emeriti: Cashdollar, Cord, Fricke, Gallanar, Gelbach, Goodrich, Hatfield, Landon, Larner, Lehman, Marcus, Mastro, McDonough, Miller, Oliver, Rife, Smith, Vogel, Wiley

Website: www.iup.edu/history

Bachelor of Arts

- [History](#)
- [History/Pre-Law Track](#)

[Bachelor of Science in Education–Social Studies Education/History Track](#)

[History Honors Track](#)

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 degree with a major 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 public history 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 degree with a major in History are 36 credits 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 credits in history within the 54 credits required for social studies certification. To minor in history, 15 credits of courses with an HIST prefix are required, with at least 3 credits taken at the 300 or higher level. No more than 6 credits may be transferred to IUP from another university. 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 [HIST 482](#) and [483](#), 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.

Bachelor of Arts–History

Liberal Studies: As outlined in Liberal Studies section with the following specifications:	50
Humanities-History: fulfilled by required courses in major	
Mathematics: 3cr	
Liberal Studies Electives: 9cr; no courses with HIST prefix	

College:		0-6
Foreign Language Intermediate Level (1)		
Major:		36
Required Courses:		
HIST 200	Introduction to History	3cr
HIST 480	Senior Seminar (2)	3cr
Controlled Electives:		9cr
At least three foundation courses from the following: (3)		
HIST 201	Western Civilization Before 1600 (4)	
HIST 202	Western Civilization Since 1600 (4)	
HIST 204	United States History to 1877	
HIST 205	United States History Since 1877	
HIST 206	History of East Asia	
HIST 208	Survey of Latin American History	
One course from HIST 401-404 (Topics)		3cr
One Non-Western HIST course: Latin America, Africa, Asia, Middle East, or Russia, 300 or 400 level		3cr
Five additional history courses (5)		15cr
Free Electives:		28-34
Total Degree Requirements:		120
<p>(1) Intermediate-level Foreign Language may be included in Liberal Studies electives.</p> <p>(2) This requirement may be fulfilled by completing either the departmental honors program or graduate seminar with a concluding paper.</p> <p>(3) No more than 12cr in foundation courses may be counted towards the major.</p> <p>(4) For students who have taken HIST 195, 210, or 212 prior to becoming History majors, this course may not be appropriate. Consult History advisor before scheduling.</p> <p>(5) Courses selected from 300- and 400-level offerings; no more than 6cr from HIST 493 as major elective. Students who have taken three foundation courses must take at least seven 300-400 level HIST courses in addition to HIST 480. Those with four foundation courses need take only six 300-400 level HIST courses in addition to HIST 480.</p>		

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Bachelor of Arts–History/Pre-Law Track

Liberal Studies: As outlined in Liberal Studies section with the following specifications:	50	
Humanities-History: fulfilled by required courses in major		
Mathematics: 3cr		
Liberal Studies Electives: 9cr; no courses with HIST prefix		
College:	0-6	
Foreign Language Intermediate Level (1)		
Major:	36	
Required Courses:		
HIST 200	Introduction to History	3cr
HIST 480	Senior Seminar (2)	3cr
Controlled Electives:		9cr
At least three foundation courses from the following: (3)		
HIST 201	Western Civilization Before 1600 (4)	
HIST 202	Western Civilization Since 1600 (4)	
HIST 204	United States History to 1877	
HIST 205	United States History Since 1877	
HIST 206	History of East Asia	

HIST 208	Survey of Latin American History	
One course from HIST 401-404 (Topics)		3cr
One Non-Western HIST course: Latin America, Africa, Asia, Middle East, or Russia, 300 or 400 level		3cr
Five additional history courses (5)		15cr
Other Requirements: Pre-Law interdisciplinary track		3-21
Seven courses, including at least one from each of six areas: <i>Business:</i> ACCT 201 , ACCT 202 , BLAW 235 <i>Criminology:</i> CRIM 210 , 215 , 255 <i>Economics:</i> ECON 121 , 122 , 332 <i>English:</i> ENGL 212 , 220 , 310 <i>Philosophy:</i> PHIL 101 , 222 , 450 <i>Political Science:</i> PLSC 358 , 359 , 361		
Free Electives:		7-31
Total Degree Requirements:		120
<p>(1) Intermediate-level Foreign Language may be included in Liberal Studies electives.</p> <p>(2) This requirement may be fulfilled by completing either the departmental honors program or graduate seminar with a concluding paper.</p> <p>(3) No more than 12cr in foundation courses may be counted towards the major.</p> <p>(4) For students who have received credit for HIST 195, 210, or 212 prior to becoming history majors, this course may not be appropriate. Consult History advisor before scheduling.</p> <p>(5) Courses selected from 300- and 400-level offerings; no more than 6cr from HIST 493 as major elective. Students who have taken three foundation courses must take at least seven 300- and 400-level HIST courses in addition to HIST 480. Those with four foundation courses need take only six 300- and 400-level HIST courses in addition to HIST 480.</p>		

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Bachelor of Science in Education–Social Studies Education/History Track (*)

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Humanities-History: fulfilled by required courses in major Mathematics: 3cr Social Science: ANTH 110 , ECON 121 , and PSYC 101 Liberal Studies Electives: 6cr, ECON 122 , GEOG 230 , no courses with HIST prefix		48
College:		32
3 additional cr of MATH 100 level or above (in addition to Liberal Studies MATH) (1)	3cr	
Preprofessional Education Sequence:		
COMM 103	Digital Instructional Technology	3cr
EDSP 102	Educational Psychology	3cr
Professional Education Sequence:		
EDEX 301	Education of Students with Disabilities in Inclusive Secondary Settings	2cr
EDSP 477	Assessment of Student Learning: Design and Interpretation of Educational Measures	3cr
EDUC 242	Pre-student Teaching Clinical Experience I	1cr
EDUC 342	Pre-student Teaching Clinical Experience II	1cr
EDUC 441	Student Teaching	12cr
EDUC 442	School Law	1cr
EDUC 455	Teaching of Social Studies in Secondary Schools	3cr
Major:		27

Foundation Courses: (2)		
HIST 201	Western Civilization Before 1600 (3)	3cr
HIST 202	Western Civilization Since 1600 (3)	3cr
HIST 204	United States History to 1877	3cr
HIST 205	United States History Since 1877	3cr
Research Courses:		
HIST 200	Introduction to History	3cr
HIST 401-404 <i>or</i> HIST 480	Topics <i>or</i> Senior Seminar (4)	3cr
Controlled Electives:		9cr
One Non-Western History course: Latin America, Africa, Asia, Russia, 300 or 400 level		
One United States History course at the 300 or 400 level		
One History course at the 300 or 400 level		
Social Science Distribution:		12
GEOG XXX	200-level or higher Geography course	3cr
PLSC 111	American Politics	3cr
PLSC 280 <i>or</i> PLSC 285	Comparative Government I: Western Political Systems <i>or</i> Comparative Government II: Non-Western Political Systems	3cr
SOC 337 <i>or</i> SOC 362 <i>or</i> SOC 231	World Societies and World Systems <i>or</i> Racial and Ethnic Minorities <i>or</i> Contemporary Social Problems	3cr
Free Electives:		1
Total Degree Requirements:		120
<p>(*) See requirements leading to teacher certification, titled "3-Step Process for Teacher Education," in the College of Education and Educational Technology section of this catalog. In order to student teach, students must have a 3.0 cumulative GPA in their major (social science and history courses). To be licensed to teach History, Geography, Economics, Civics, and Government, Social Studies Education/History majors must apply for Citizenship Education certification.</p> <p>(1) Students are required to take an additional 3cr of MATH beyond the Liberal Studies requirement for a total of 6cr, all of which must be 100 level or above.</p> <p>(2) In exceptional cases, the student's advisor may give special permission to substitute two upper-level courses for one of the foundation courses.</p> <p>(3) For students who have received credit for HIST 195, 210, or 212 prior to becoming History majors, this course may not be appropriate. Consult History advisor before scheduling.</p> <p>(4) This requirement may be fulfilled by completing either the departmental honors program or graduate seminar with a concluding paper.</p>		

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History Honors Program

The honors program is open by departmental permission to History, History Pre-Law, and Social Studies Education/History majors with a minimum 3.25 cumulative GPA and a 3.5 GPA in History courses. Students complete at least one semester of HIST 487 (a variable-topic course open also to students in the Robert E. Cook Honors College) and two semesters of honors thesis research and writing. Honors theses are completed individually under the direction of a department professor who specializes in the student's area of interest and are approved by a thesis committee comprising the director and two other readers, one of whom may come from outside the History Department. Honors History courses count toward the major; completion of an honors thesis substitutes for HIST 480.

Students interested in the History Honors program should discuss this opportunity as early as possible with their advisors. Students may file a declaration of intent during the sophomore year; a formal application for admission must be made, normally early in the junior year. The program is particularly encouraged for students intending to seek admission to graduate or professional schools. Honors coursework is designated on university transcripts; students completing the departmental honors program are recognized at departmental commencement ceremonies.

HIST 483	Honors Thesis (1)	6cr	
HIST 487	Honors Colloquium in History	3cr	
(1) Two semesters, 3cr each			

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Department of Journalism

Chairperson: Randy L. Jesick
Faculty: Heilman, Loomis, Mukasa
Professors emeriti: DeGeorge, Furgieuele, Truby

Website: www.iup.edu/journalism

Course Sequence

Bachelor of Arts–Journalism

Minor–Journalism

Students interested in a career in news-editorial or public relations fields, with opportunities in such related areas as magazines, advertising, visual journalism, on-line journalism, 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 communications 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. degree with a major 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 credits 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 all 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 offers an 18-credit minor designed to complement any major. Three 3-credit courses are required: [JRNL 105](#), [102](#), and [120](#). The remaining 9 credits may be taken from the following list of journalism major courses: [JRNL 326](#), [338](#), [344](#), [347](#), [375](#), and designated Special Topics courses. Internship credits do not apply toward the 18-credit minor; however, a student in the minor program may take an internship and apply the credits as free electives.

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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

JRNL 102	Basic Journalism Skills*
JRNL 105	Journalism and the Mass Media*
JRNL 120	Journalistic Writing**
JRNL 220	Writing for the Print Media**

*required for all journalism majors and minors

**required for journalism minors

Level II

- JRNL 243 History of American Press
- JRNL 250 Women and the Press
- JRNL 321 Feature Writing
- JRNL 326 Public Relations I
- JRNL 327 Layout, Design, and Production
- JRNL 328 News Reporting (required for all journalism majors)
- JRNL 337 Editing
- JRNL 344 Issues and Problems
- JRNL 345 Sports Journalism
- JRNL 375 World News Coverage
- JRNL 393 Document Design I

Level III

- JRNL 347 Journalism Law
- JRNL 348 The Editorial Page
- JRNL 423 Management in Mass Communications
- JRNL 427 Publications
- JRNL 430 Public Opinion and the News Media
- JRNL 446 Research Methods in Journalism
- JRNL 450 Advertising Writing
- JRNL 482 Independent Study
- JRNL 490 Public Relations II
- JRNL 491 Presentation Making
- JRNL 492 Problem-solving in Public Relations
- JRNL 493 Internship
- JRNL 494 Document Design II

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Bachelor of Arts–Journalism

Liberal Studies: As outlined in Liberal Studies section with the following specifications:		53-55
Mathematics: 3cr		
Liberal Studies Electives: 9cr, no courses with JRNL prefix		
College:		
Foreign Language Intermediate Level (1)		0-6
Major:		
Required Courses:		30
JRNL 102	Basic Journalistic Skills	3cr
JRNL 105	Journalism and the Mass Media	3cr
JRNL 220	Writing for the Print Media	3cr
JRNL 328	News Reporting	3cr
Controlled Electives:		
Other JRNL courses (as listed in this catalog) (2)		18cr
Other Requirements:		
Department recommends a planned program of dual major, minor(s), or electives (3, 4)		0
Free Electives:		
		29-37
Total Degree Requirements:		120
(1) Intermediate-level Foreign Language may be included in Liberal Studies electives.		

- (2) Maximum of 6cr of internship applied to major.
- (3) Students may take no more than 15cr 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 [BTST 321](#), [MKTG 320](#), and [MKTG 433](#).

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Minor–Journalism (1)

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Required Courses:		
JRNL 102	Basic Journalistic Skills (2)	3cr
JRNL 105	Journalism and the Mass Media (2)	3cr
JRNL 120	Journalistic Writing (2)	3cr
Controlled Electives:		
Three courses from the following: JRNL 243 , 326 , 338 , 344 , 347 , 375 , 481 (3)		9cr
<ul style="list-style-type: none"> (1) Internship credits do not apply toward the 18cr 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 substitute only with departmental permission. 		

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Department of Philosophy

Chairperson: Sherrill J. Begres
Faculty: Caraway, Duckles, MacLeod, Rives, Rubenstein
Professors emeriti: Boone, Bouffard, Hermann

Website: www.iup.edu/philosophy

Philosophy Major

Individually Designed Philosophy Minor

Liberal Studies Offerings

Pre-Law Track

Bachelor of Arts–Philosophy

Bachelor of Arts–Philosophy/Pre-Law Track

Minor–Philosophy

Philosophy Honors Program

- Program Requirements
-

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.

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.

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 [PHIL 101](#), [120](#), [221](#), [222](#), [223](#).

Pre-Law Track

The Department of Philosophy 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 [PHIL 101](#), [222](#), and [450](#).

Philosophy Honors Program

The honors program is open by departmental invitation to Philosophy and Philosophy/Pre-Law majors with a minimum 3.25 cumulative GPA and a 3.5 GPA in Philosophy courses. Students complete [PHIL 480/H/](#), [483/H/](#), and [HNRC 499](#), which fulfills the Liberal Studies Synthesis requirement. To determine how honors track courses will be integrated into existing requirements for the Philosophy or Philosophy Pre-Law major, students should consult their advisors.

Any student satisfying the GPA requirement at the end of their third semester at IUP will be automatically advised of the requirements of the honors track and invited to participate.

Bachelor of Arts–Philosophy

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: 3cr Philosophy: included in major Liberal Studies Electives: 9cr; no courses with PHIL prefix	53
College: Foreign Language Intermediate Level (1)	0-6
Major: Required Courses:	30
PHIL 221 Symbolic Logic I	3cr
PHIL 222 Ethics	3cr
Controlled Electives: Eight PHIL courses: PHIL 324 or 325 and one other from the following: (6cr)	24cr
PHIL 324 Ancient Philosophy	
PHIL 325 Modern Philosophy	
PHIL 326 Phenomenology and Existentialism	
PHIL 410 Contemporary Analytic Philosophy	
PHIL 420 or 421 and one other from the following: (6cr)	
PHIL 330 Philosophy of Science	
PHIL 420 Metaphysics	
PHIL 421 Theory of Knowledge	
PHIL 460 Philosophy of Language	
Four other PHIL courses (12cr) (may be from the above lists) (with restrictions) (2, 3)	
Free Electives:	31-37
Total Degree Requirements:	120
<p>(1) Intermediate-level Foreign Language may be included in Liberal Studies electives.</p> <p>(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.</p> <p>(3) No more than 9 nonclasswork credits may be counted toward the major. Nonclasswork credits include independent study, independent honors project, and internship in philosophy.</p>	

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Bachelor of Arts–Philosophy/Pre-Law Track

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: 3cr Philosophy: included in major	53
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Liberal Studies Electives: 9cr; no courses with PHIL prefix		
College:		0-6
Foreign Language Intermediate Level (1)		
Major:		30
Required Courses:		
PHIL 101	Informal Logic: Methods of Critical Thinking	3cr
PHIL 222	Ethics	3cr
Controlled Electives:		24cr
PHIL 324 or 325 and one other from the following: (6cr)		
PHIL 324	Ancient Philosophy	
PHIL 325	Modern Philosophy	
PHIL 326	Phenomenology and Existentialism	
PHIL 410	Contemporary Analytic Philosophy	
PHIL 420 or 421 and one other from the following: (6cr)		
PHIL 330	Philosophy of Science	
PHIL 420	Metaphysics	
PHIL 421	Theory of Knowledge	
PHIL 460	Philosophy of Language	
Four other PHIL courses (12cr) (may be from the above lists) (with restrictions) (2, 3)		
Other Requirements: Pre-Law interdisciplinary track		15-21
Seven courses, including at least one from each of six areas: <i>Business:</i> ACCT 201 , ACCT 202 , BLAW 235 <i>Criminology:</i> CRIM 210 , 215 , 255 <i>Economics:</i> ECON 121 , 122 , 332 <i>English:</i> ENGL 212 , 220 , 310 <i>History:</i> HIST 320 , 321 , 346 <i>Political Science:</i> PLSC 358 , 359 , 361		
Free Electives:		10-22
Total Degree Requirements:		120
<p>(1) Intermediate-level Foreign Language may be included in Liberal Studies electives.</p> <p>(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.</p> <p>(3) No more than 9 nonclasswork credits may be counted toward the major. Nonclasswork credits include independent study, independent honors project, and internship in philosophy.</p>		

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Minor–Philosophy

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Controlled Electives:	
Five PHIL courses (with restrictions) (1, 2)	15cr
<p>(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.</p> <p>(2) No more than 3 nonclasswork credits may be counted toward the minor. Nonclasswork credits include independent study, independent honors project, and internship in philosophy.</p>	

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Required Courses:

HNRC 499	Honors Senior Synthesis	*cr (1)	
PHIL 480/H/	Honors Seminar in Philosophy	3cr	
PHIL 483/H/	Honors Thesis in Philosophy	6cr	

(1) Credits for [HNRC 499](#) are counted in the Liberal Studies Synthesis requirement.

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Department of Political Science

Chairperson: Steven F. Jackson
Faculty: Bahgat, Chambers, Fiddner, Kuffner-Hirt, Martin, McKechnie, Sitton, Torges, Wheeler
Professors emeriti: Chaszar, Morris, Palmer, Platt

Website: www.iup.edu/politicalscience

Bachelor of Arts

- **Political Science**
- **Political Science/Pre-Law Track**
- **Government and Public Service**
- **International Studies/Political Science**

Minor

- **Political Science**
 - **International Studies**
-

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 degree with majors 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.

Bachelor of Arts–Political Science

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: 3cr Social Science: PLSC 111 Liberal Studies Electives: 6cr, no courses with PLSC prefix	50
College: Foreign Language Intermediate Level (1)	0-6
Major: Required Courses:	33

PLSC 101	World Politics (2)	3cr
PLSC 111	American Politics (3)	*cr
Controlled Electives:		30cr
At least one course in three of first four areas: <i>American Studies:</i> PLSC 251 , 300 , 346 , 350 , 351 , 353 , 354 , 355 , 356 , 357 , 358 , 359 <i>Political Theory:</i> PLSC 360 , 361 , 362 <i>Public Policy and Administration:</i> PLSC 250 , 370 , 371 , 444 <i>International Studies:</i> PLSC 280 , 282 , 283 , 285 , 320 , 321 , 380 , 382 , 383 , 384 , 385 , 386 , 387 , 388 , 389 (4) <i>General Political Science:</i> PLSC 300 (strongly recommended), PLSC 377 , 480 , 481 , 482 , 485 , 493		
Other Requirements:		18-27
Second major, minor, or concentration as approved by advisor with maximum of 15cr outside College of Humanities and Social Sciences unless specifically approved		
Free Electives:		4-19
Total Degree Requirements:		120
(1) Intermediate-level Foreign Language may be included in Liberal Studies electives. (2) PLSC 101 satisfies non-Western requirement. (3) Credits for PLSC 111 are counted in the Liberal Studies Social Science requirements. (4) PLSC 280 and/or 285 recommended as prerequisite to PLSC 380 through 389 .		

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Bachelor of Arts–Political Science/Pre-Law Track

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: 3cr Social Science: PLSC 111 Liberal Studies Electives: 6cr, no courses with PLSC prefix	51	
College:	0-6	
Foreign Language Intermediate Level (1)		
Major:	33	
Required Courses:		
PLSC 101	World Politics (2)	3cr
PLSC 111	American Politics (3)	*cr
Controlled Electives:		30cr
At least one course in three of first four areas: <i>American Studies:</i> PLSC 251 , 300 , 346 , 350 , 351 , 353 , 354 , 355 , 356 , 357 , 358 , 359 <i>Political Theory:</i> PLSC 360 , 361 , 362 <i>Public Policy and Administration:</i> PLSC 250 , 370 , 371 , 444 <i>International Studies:</i> PLSC 280 , 282 , 283 , 285 , 320 , 321 , 380 , 382 , 383 , 384 , 385 , 386 , 387 , 388 , 389 (4) <i>General Political Science:</i> PLSC 300 (strongly recommended), 377 , 480 , 481 , 482 , 485 , 493		
Other Requirements: Pre-Law interdisciplinary track		15-21
Seven courses, including at least one from each of six areas: <i>Business:</i> ACCT 201 , ACCT 202 , BLAW 235 <i>Criminology:</i> CRIM 210 , 215 , 255 <i>Economics:</i> ECON 121 , 122 , 332 <i>English:</i> ENGL 212 , 220 , 310 <i>History:</i> HIST 320 , 321 , 346		

<i>Philosophy:</i> PHIL 101, 222, 450	
Free Electives:	9-21
Total Degree Requirements:	120
(1) Intermediate-level Foreign Language may be included in Liberal Studies electives. (2) PLSC 101 satisfies non-Western requirement. (3) Credit hours for PLSC111 are counted in the Liberal Studies Social Science requirements. (4) PLSC 280 and/or 285 recommended as prerequisite to PLSC 380 through 389 .	

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Bachelor of Arts–Government and Public Service

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 217 Social Science: ECON 121 , PSYC 101 , SOC 151 Liberal Studies Electives: 6cr, COSC 101 , no courses with PLSC prefix	50
College: Foreign Language Intermediate Level (1)	0-6
Major: Required Courses:	39
ECON 335 Public Finance (2)	3cr
ECON 336 State and Local Finance (2)	3cr
PLSC 111 American Politics	3cr
PLSC 250 Public Policy	3cr
PLSC 251 State and Local Political Systems	3cr
PLSC 300 Research Methods in Political Science	3cr
PLSC 370 Introduction to Public Administration	3cr
PLSC 371 Issues in Public Administration	3cr
PSYC 330 Social Psychology	3cr
SOC 458 Political Sociology (3)	3cr
Controlled Electives: Three courses from the following: PLSC 350 , 351 , 352 , 353 , 354 , 355 , 358 , 377 , 444 , 481 , 482 , 485 , 493	9cr
Other Requirements: One course from communications areas (English, Journalism, Communications Media) as approved by advisor Interdisciplinary minor: Government Management, Personnel Administration, Financial Administration, Planning	21
Free Electives:	4-10
Total Degree Requirements:	120
(1) Intermediate-level Foreign Language may be included in the Liberal Studies electives. (2) Approved substitutes for ECON 335 and 336 : ECON 332 , 333 , 361 , 373 . (3) Approved substitutes for SOC 458 : SOC 303 , 335 , 345 .	

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Bachelor of Arts–International Studies/Political Science

Liberal Studies: As outlined in Liberal Studies section with the following specifications:	50
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Mathematics: 3cr		
Social Science: PLSC 111		
Liberal Studies Electives: 6cr, no courses with PLSC prefix		
College:		0-6
Foreign Language Intermediate Level (1)		
Major:		33
Required Courses:		
PLSC 101	World Politics	3cr
PLSC 111	American Politics (2)	*cr
Interdisciplinary sequence (3)		15cr
Cultural specialization sequence (4)		15cr
Other Requirements: (5)		0
Free Electives:		31-37
Total Degree Requirements:		120
<p>(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.</p> <p>(2) Credits for PLSC 111 are counted in the Liberal Studies Social Science requirements.</p> <p>(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.</p> <p>(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.</p> <p>(5) Majors are strongly encouraged to take advantage of the study abroad opportunities available through IUP department programs and exchange opportunities available through the International Affairs Office.</p>		

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Minor–Political Science

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Required Courses:		
PLSC 101	World Politics	3cr
PLSC 111	American Politics	3cr
Controlled Electives:		
Three additional PLSC courses		9cr

Minor–International Studies

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Required Courses:		
PLSC 101	World Politics	3cr
PLSC 111	American Politics (1)	*cr
Controlled Electives:		
Interdisciplinary sequence (see major)		15cr
<p>(1) Credits counted with Liberal Studies Social Sciences.</p>		

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Department of Religious Studies

Chairperson: Theresa S. Smith
Faculty: Chandler, Gibson, Holm, Yirenky
Professors emeriti: Chan, Ferrara, Lin, Montgomery, Schaub

Website: www.iup.edu/religiousstudies

Bachelor of Arts–Religious Studies

Minor–Religious Studies

Philosophy Honors Program

- Program Requirements
-

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 and encourages the minor or a double major, as well as a single major in Religious Studies.

The program is valuable for those planning to teach about religions or religious studies in schools at the primary, secondary, or college level. 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 27 credits of Religious Studies courses in the major, 3 credits 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.

Minor

The requirements for a minor in Religious Studies are 15 credits that must be taken from the Religious Studies offerings, which include certain required courses.

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Religious Studies Honors Program

The honors program is open by departmental invitation to Religious Studies majors with a minimum 3.25 cumulative GPA and a 3.5 GPA in Religious Studies courses. Students complete [RLST 480/H/](#), [483/H/](#), [493/H/](#), and [HNRC 499](#), which fulfills the Liberal Studies Synthesis requirement. To determine how honors track courses will be integrated into existing requirements for the Religious Studies major, students should consult their advisors.

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 [RLST 100](#), [110](#), [250](#), and [290](#).

Bachelor of Arts–Religious Studies

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: 3cr Liberal Studies Electives: 9cr, no courses with RLST prefix	53
College: Foreign Language Intermediate Level (1)	0-6
Major: Controlled Electives: (2) One Core: RLST 100 or 110 Western: RLST 260 , 290 , 380 , 410 , or 440 Eastern: RLST 311 , 370 , or 375 Indigenous: RLST 360 or 365 Five additional RLST courses (3) One religion-related course (3)	30
Free Electives:	31-37
Total Degree Requirements:	120
(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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Minor–Religious Studies

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One Core: RLST 100 or 110	3cr
Western: RLST 260 , 290 , 380 , 410 , or 440	3cr
Eastern: RLST 311 , 370 , or 375	3cr
Indigenous: RLST 360 or 365	3cr
Elective: one RLST course (1)	3cr
(1) Consult Religious Studies advisor.	

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Religious Studies Honors Track

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Required Courses:		
HNRC 499	Honors Senior Synthesis	*cr (1)
RLST 480/H/	Honors Seminar in Religious Studies	3cr
RLST 483/H/	Honors Thesis in Religious Studies	3cr
RLST 493/H/	Internship in Religious Studies	3cr
(1) Credits for HNRC 499 are counted in the Liberal Studies Synthesis requirement.		

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Department of Sociology

Chairperson: D. Alex Heckert

Faculty: Ackerman, Ahmed, Anderson, Bonach, Boser, Chang, Crane, Darling, Gondolf, Heasley, Hildebrandt, Holtz, Hughes, Mabry, Nowak, Snyder

Professor emeritus: Hunter

Website: www.iup.edu/sociology

Bachelor of Arts–Sociology

- [Applied Social Research Track](#)
- [General Sociology Track](#)
- [Human Services Track](#)
- [Sociology of Disability Services Track](#)

Bachelor of Science in Education–Social Science Education/Sociology Concentration

Minors

- [Applied Social Research](#)
- [General Sociology](#)
- [Human Services](#)
- [Sociology of Disability Services](#)

Sociology Honors Program

- [Program Requirements](#)
-

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 four tracks: General Sociology, Human Services, Sociology of Disability 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).

Students who complete the specialized major track for Sociology of Disability Services will be prepared for employment in the human services/social services as therapeutic staff support personnel or in a wide variety of career services such as mental health/mental retardation programs, community-based residential/employment/training programs, early intervention programs, residential treatment programs, aging

programs, and other agency service providers for individuals with disabilities. Additionally, students in this track are encouraged to complement their studies by adding a second major in Disability Services Program or a minor in Education of Exceptional Persons offered by the Department of Special Education and Clinical Services to better prepare them in a multidisciplinary curriculum. Minors are also recommended in Psychology or Child Development and Family Relations.

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 general sociology, human services, sociology of disability services, and applied social research.

Sociology Honors Program

The honors program is open by departmental permission to declared Sociology majors with a minimum 3.25 cumulative GPA and a 3.5 GPA in Sociology courses.

Students complete [CHSS 489](#) (a multidisciplinary colloquium emphasizing problem-solving, discussion, reading, and writing on a topic or theme); [SOC 483](#); and [HNRC 499](#), which fulfills the Liberal Studies Synthesis requirement. Students must earn at least a C in each course completed for the track. To determine how honors track courses will be integrated into existing requirements for the Sociology major, students should consult their advisors.

Students may be invited to apply or may nominate themselves. In either case, to be considered for the Sociology honors track, students must have earned 15 credits in Sociology, including [SOC 320](#). Sociology majors who have met the eligibility criteria must submit an application to the chairperson of the Department of Sociology after they have earned at least 56 credits.

Bachelor of Arts–Sociology/General Sociology Track

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 217 recommended Social Science: SOC 151 Liberal Studies Electives: 9cr, no courses with SOC prefix	53
College: Foreign Language Intermediate Level (1)	0-6
Major: Required Courses:	33
SOC 151 Principles of Sociology (2)	*cr
SOC 320 Sociological Theory	3cr
SOC 460 Social Research Methods I	3cr
SOC 461 Social Research Methods II	3cr
One course from the following:	3cr
SOC 361 Social Stratification	
SOC 362 Racial and Ethnic Minorities	
SOC 363 Sociology of Gender	
At least one different course from four of the following substantive areas: <i>Social Inequality and Social Change:</i> SOC 269, 303, 337, 361, 362, 363, 448, 452, 458 <i>Deviance and Social Problems:</i> SOC 231, 269, 333, 335, 427, 428, 452 <i>Individual in Society:</i> SOC 251, 269, 345, 357, 452 <i>Social Organization and Institutions:</i> SOC 286, 336, 340, 341, 342, 348, 352, 421, 458 <i>Comparative Sociology:</i> SOC 233, 271, 272, 273, 286, 303, 314, 337, 342	12cr
Free Sociology Electives: (3)	9cr
Free Electives:	28-34

Total Degree Requirements:	120
<p>(1) Intermediate-level Foreign Language may be included in Liberal Studies electives. (2) Credits counted in Liberal Studies, not in the major. (3) Internship in Sociology (SOC 493) will not count as part of the required Free Sociology electives and must count as credits beyond the 30cr required for the major (out of Free Electives). The student must write a one-page justification explaining the selection of his/her 9cr of Free Sociology electives as it relates to the internship experience.</p>	

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Bachelor of Arts–Sociology/Human Services Track

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 217 recommended Social Science: SOC 151 required, ANTH 110 and PSYC 101 recommended Liberal Studies Electives: 9cr, no courses with SOC prefix	53
College: Foreign Language Intermediate Level (1)	0-6
Major: Required Courses:	45
SOC 151 Principles of Sociology (2)	*cr
SOC 301 Foundations of Sociological Practice	3cr
SOC 302 Clinical Sociological Practice	3cr
SOC 303 Social and Cultural Change	3cr
SOC 320 Sociological Theory	3cr
SOC 460 Social Research Methods I	3cr
SOC 461 Social Research Methods II	3cr
SOC 493 Internship in Sociology (3)	12cr
Controlled Electives: One substantive area (4, 5)	15cr
<i>Medical Sociology:</i> ANTH 444 or SOC 342 , and four courses from the following: ANTH 222, 444, BIOL 151 or 155, ECON 335, FDNT 212, PSYC 321, 378, RGPL 350, SOC 231, 336, 342, 357, 448, 452, 457	
<i>Gerontology:</i> PSYC 378 or SOC 357 , and four courses from the following: ANTH 444, ECON 335, PSYC 312, 378, RGPL 350, SOC 231, 251, SOC 336, 342, 352, 357, 448, 457	
<i>Juvenile Delinquency:</i> SOC 333 , and four courses from the following: CRIM 102, 225, 235, 394, GEOG 432, HIST 374, SOC 231, 269, 335, 336, SOC 345, 361, 362, 428, 448, 457	
<i>Interpersonal and Family Sociology:</i> SOC 336 or 345 , and four courses from the following: CDEF 218, 224, PSYC 311, 321, 330, SOC 251, 269, 335, 336, 345, SOC 361, 363, 427, 428, 448, 452, 457	
<i>Labor and Industry:</i> SOC 340 or 348 , and four courses from the following: ECON 330, 350, 371, 372, 373, HIST 373, ILR 426, 480, PSYC 390, SOC 231, 340, 348, 361, 448, 457, 458	
<i>Community Development:</i> SOC 231 or 448 , and four courses from the following: ANTH/SOC 271, 272, 314, ECON 336, 383, FDNT 402, GEOG 331, 332, PLSC 251, RGPL 350, SOC 269, 333, 336, 341, 363, 448, 457	
Free Electives:	16-22
Total Degree Requirements:	120
<p>(1) Intermediate-level Foreign Language may be included in Liberal Studies electives. (2) Credits counted in Liberal Studies, not in the major.</p>	

- (3) [SOC 301](#) and [302](#) must be taken before [SOC 493](#). Generally, [SOC 493](#) 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](#) courses.

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Bachelor of Arts–Sociology/Applied Social Research Track

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 217 recommended Social Science: SOC 151 required, ANTH 110 recommended Liberal Studies Electives: 9cr, COSC 101 , no courses with SOC prefix	53
College: Foreign Language Intermediate Level (1)	0-6
Major:	45
Required Courses:	
SOC 151 Principles of Sociology (2)	*cr
SOC 320 Sociological Theory	3cr
SOC 456 Field Research Methods	3cr
SOC 457 Computer Use in Sociology	3cr
SOC 458 Political Sociology	3cr
SOC 460 Social Research Methods I	3cr
SOC 461 Social Research Methods II	3cr
SOC 493 Internship in Sociology (3)	12cr
Controlled Electives:	
One substantive area (4, 5)	15cr
<i>Medical Sociology:</i> ANTH 444 or SOC 342 , and four courses from the following: ANTH 222, 444, BIOL 151 or 155, ECON 335, FDNT 212, PSYC 321, 378, RGPL 350, SOC 231, 335, 336, 342, 357, 448, 452	
<i>Gerontology:</i> PSYC 378 or SOC 357 and four courses from the following: ANTH 444, ECON 335, 360, PSYC 312, 378, RGPL 350, SOC 231, 251, 336, 342, 352, 357, 448	
<i>Juvenile Delinquency:</i> SOC 333 and four courses from the following: CRIM 102, 225, 235, 394, GEOG 432, HIST 374, SOC 231, 269, 335, 336, SOC 345, 361, 362, 428	
<i>Interpersonal and Family Sociology:</i> SOC 336 or 345 and four courses from the following: CDEF 218, 224, PSYC 311, 321, 330, SOC 251, 269, 335, 336, SOC 345, 361, 363, 427, 428, 448, 452	
<i>Labor and Industry:</i> SOC 340 or 348 , and four courses from the following: ECON 330, 350, 371, 372, 373, HIST 373, ILR 426, 480, PSYC 390, SOC 231, 303, 340, 348, 361, 448, 458	
<i>Community Development:</i> SOC 231 or 448 , and four courses from the following: ANTH/SOC 271, 272, 314, ECON 336, 383, FDNT 402, GEOG 331, 332, PLSC 251, RGPL 350, SOC 269, 333, 336, 341, 363, 448	
Free Electives:	16-22
Total Degree Requirements:	120
<ol style="list-style-type: none"> (1) Intermediate-level Foreign Language may be included in Liberal Studies elective. (2) Credits counted in Liberal Studies, not in the major. (3) SOC 456, 457, 460, and 461 must be taken before taking SOC 493. Generally, SOC 493 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 courses. 	

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Bachelor of Arts–Sociology/Sociology of Disability Services Track

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 217 recommended Social Science: SOC 151 and PSYC 101 required, ANTH 110 recommended Liberal Studies Electives: 9cr, no courses with SOC prefix		53
College: Foreign Language Intermediate Level (1)		0-6
Major: Required Courses:		45
EDEX 111	Introduction to Exceptional Persons	3cr
EDEX 460	Family Perspectives on Disability	3cr
SOC 151	Principles of Sociology (2)	*cr
SOC 301	Foundations of Sociological Practice	3cr
SOC 302	Clinical Sociological Practice	3cr
SOC 320	Sociological Theory	3cr
SOC 336	Sociology of the Family	3cr
SOC 342	Social and Cultural Aspects of Health and Medicine	3cr
SOC 357	Sociology of Aging	3cr
SOC 452	Disability and Society	3cr
SOC 460	Social Research Methods I	3cr
SOC 461	Social Research Methods II	3cr
Internship:		
SOC 493	Internship in Sociology (3)	12cr
Suggested Minors or Free Electives:		16-22
Free elective credits may be used toward the study of a minor discipline. A minor in one of the followings areas is recommended:		
	Child Development and Family Relations	18cr
	Education of Exceptional Persons (4)	18cr
	Psychology	18cr
Total Degree Requirements:		120
<p>(1) Intermediate-Foreign Language may be included in Liberal Studies electives.</p> <p>(2) Credits counted in Liberal Studies, not in the major.</p> <p>(3) SOC 301 and SOC 302 must be taken before SOC 493. Generally, SOC 493 is taken in the summer before the senior year.</p> <p>(4) The minor in Education of Exceptional Persons is recommended for students wanting a more in-depth study of disability services from an educational perspective.</p>		

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Bachelor of Science in Education–Social Science Education/Sociology Concentration (*)

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Humanities: History is fulfilled by courses in the major Mathematics: MATH 217 (recommended) Natural Science: BIOL 103-104 (recommended) Social Science: ECON 121 , PSYC 101 , SOC 151 Liberal Studies Electives: 6cr, PSYC 310 or 330 , no courses with SOC prefix		48
College:		32

3 additional cr of MATH 100 -level or above (in addition to Liberal Studies Mathematics) (1)		3cr
Preprofessional Education Sequence:		
COMM 103	Digital Instructional Technology	3cr
EDSP 102	Educational Psychology	3cr
Professional Education Sequence:		
EDEX 301	Education of Students with Disabilities in Inclusive Secondary Settings	2cr
EDSP 477	Assessment of Student Learning: Design and Interpretation of Educational Measures	3cr
EDUC 242	Pre-student Teaching Clinical Experience I	1cr
EDUC 342	Pre-student Teaching Clinical Experience II	1cr
EDUC 441	Student Teaching	12cr
EDUC 442	School Law	1cr
EDUC 455	Teaching of Social Studies in Secondary Schools	3cr
Major: (2)		21
Required Sociology Courses:		
SOC 231	Contemporary Social Problems	3cr
SOC 320	Sociological Theory	3cr
SOC 336	Sociology of the Family	3cr
SOC 460	Social Research Methods I	3cr
Controlled Electives:		
One course from the following on Social Equity: SOC 361 , 362 , 363		3cr
Select two additional courses: one each from any <i>two</i> of the following three categories: <i>Deviance and Social Problems:</i> SOC 269 , 333 , 335 , 357 , 427 , 428 , 452 <i>Individual in Society:</i> SOC 251 , 345 <i>Social Organizations and Institutions:</i> SOC 286 , 303 , 337 , 340 , 341 , 342 , SOC 48 , 352 , 361 , 362 , 363 , 421 , 448 , 458		6cr
History Distribution Requirements:		9
HIST 202	Western Civilization Since 1600	3cr
HIST 204	United States History to 1877	3cr
HIST 205	United States History Since 1877	3cr
Social Science Distribution Requirements:		9
ANTH 211	Cultural Anthropology	3cr
GEOG 230	Cultural Geography	3cr
PLSC 280 or PLSC 285	Comparative Government I: Western Political Systems <i>or</i> Comparative Government II: Non-Western Political Systems	3cr
Free Elective:		1
Total Degree Requirements:		120
(*) See requirements leading to teacher certification, titled " 3-Step Process for Teacher Education ," in the College of Education and Educational Technology section of this catalog.		
(1) Students are required to take an additional 3cr of MATH beyond the Liberal Studies requirements for a total of 6cr, all of which must be 100 level or above.		
(2) Courses counted toward Liberal Studies credits do not receive duplicate credits in the major.		

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Minor-General Sociology

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Required Courses:		
SOC 151	Principles of Sociology	3cr

SOC 320	Sociological Theory	3cr
Controlled Electives:		
One course from list: SOC 361 , 362 , 363		3cr
Three additional courses in Sociology		9cr

Minor–Applied Social Research

18

Required Courses:		
SOC 151	Principles of Sociology	3cr
SOC 320	Sociological Theory	3cr
SOC 457	Computer Use in Sociology	3cr
SOC 460	Social Research Methods I	3cr
SOC 461	Social Research Methods II	3cr
Controlled Electives:		
Any SOC course approved by department chair		3cr

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Minor–Human Services

18

Required Courses:		
SOC 151	Principles of Sociology	3cr
SOC 301	Foundations of Sociological Practice	3cr
SOC 302	Clinical Sociological Practice	3cr
Controlled Electives: One course from the following:		
One course from the following: SOC 320 , SOC 361		3cr
Two additional courses in SOC		6cr

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Minor–Sociology of Disability Services

18

Required Courses:		
SOC 151	Principles of Sociology	3cr
SOC 301	Foundations of Sociological Practice	3cr
SOC 302	Clinical Sociological Practice	3cr
SOC 342	Social and Cultural Aspects of Health and Medicine	3cr
SOC 452	Disability and Society	3cr
Controlled Electives: One course from the following:		
SOC 336	Sociology of the Family	3cr
SOC 357	Sociology of Aging	3cr

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Sociology Honors Track

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Prerequisites: Declared major in Sociology and completion of 56cr, SOC 320 , and 12 additional cr in Sociology		
Required Courses:		
CHSS 489/H/	Honors Colloquium	3cr
HNRC 499	Honors Senior Synthesis	*cr (1)
SOC 483/H/	Honors Thesis in Sociology	6cr
(1) Credits for HNRC 499 are counted in the Liberal Studies Synthesis requirement.		

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This information is maintained by the [Office of the Registrar](#), with approval from the University Senate.

Department of Spanish

Chairperson: Laura L. Delbrugge

Faculty: Barton, Broad, Brooks, Carranza, Drescher, Glisan, Hernández, Jurewicz, McDaniel, Rodríguez, Ryan-Sams, Smith-Sherwood, Thornton, Young

Professors emeriti: Foltz, Mendizábal

Website: www.iup.edu/spanish

Bachelor of Arts–Spanish

Bachelor of Arts–Spanish for International Trade

Bachelor of Science in Education–Secondary Spanish Education

Minor–Spanish

Spanish Honors Program

- Program Requirements

Spanish for Elementary Education

Study Abroad and Internships

College Language Requirements

The Department of Spanish offers a varied curriculum designed to provide not only basic language instruction in Spanish, 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. degree with a major in Spanish, and the B.A. degree with a major 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.

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 four languages offered by the Foreign Language departments: French, German, Italian, and Spanish. Those choosing the Spanish option will fulfill the requirement by successfully completing [SPAN 201](#) or [211](#)*. The student with no previous foreign language study will take [SPAN 101-102](#) or [111](#)* as a prerequisite; the credits will not be applicable to any college or department requirements (except for students in Hospitality Management who may fulfill their 3-9-credit language requirement with [SPAN 111](#)* or [211](#)* or [131-132](#) or with two 4-credit 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 Department of Spanish. Each student's individual requirements and the judgment of the classroom instructors will also be considered in placement. No student will be allowed to register for or take a D/F repeat in [SPAN 101](#), [102](#), or [201](#) when credit has already been received for a higher-numbered course.

Incoming students may receive course credit for their oral proficiency levels in Spanish through the American Council on Education (ACE) Credit Recommendation Service and Language Testing International (LTI), the assessment agency for the American Council on the Teaching of Foreign Languages (ACTFL). Students who have taken an ACTFL Oral Proficiency Interview (OPI) through LTI, received a proficiency rating by LTI, and received credit recommendation by ACE may receive the following course credits in Spanish at IUP:

ACTFL Oral Proficiency Ratings (rated by LTI)	ACE Credit Recommendations	IUP Spanish Course Equivalencies
Intermediate-Mid	4 Lower Division credits	Either SPAN 102 or 201, depending on placement on departmental written exam
Intermediate-High/Advanced Low	8 Lower Division credits	SPAN 201 and 220
Advanced-Mid	10 Lower Division credits	SPAN 201 and 220 and 350
Advanced High/Superior	10 Lower Division credits and 2 Upper Division credits	SPAN 201 and 220 and 350 and 450

To begin the process, students must contact LTI by e-mail (testing@languagetesting.com) to request an ACE College Credit Recommendation by OPI Examination information package and application. There is a fee for the OPI and an ACE application fee.

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Spanish for Elementary Education

A student in Elementary Education may elect a concentration of 19 credits of Spanish, consisting of the following:

SPAN 201	Intermediate Spanish or equivalent	4cr
SPAN 220	Intermediate Spanish Conversation and Grammar	3cr
SPAN 230	Intermediate Spanish Composition	3cr
SPAN 260	Introduction to Hispanic Literature	3cr
SPAN 350	Advanced Spanish Conversation	3cr
SPAN 404	Advanced Spanish Grammar	3cr

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.

Spanish Honors Program

The honors program is open by departmental permission to Spanish and Secondary Spanish Education majors with a minimum 3.25 cumulative GPA and a 3.25 GPA in Spanish courses.

To apply, students must submit two letters of reference from Spanish Department faculty members and a two-page self-statement describing the student's academic and career goals.

Students complete two semesters of [SPAN 483/H/](#), [CHSS 489](#) (a multidisciplinary colloquium emphasizing problem-solving, discussion, reading, and writing on a topic or theme), and one course from [SPAN 410-431](#). Students must earn at least a B in each course completed for the track. To determine how honors track courses will be integrated into existing requirements for the Spanish or Secondary Spanish Education major, students should consult their advisors.

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 credits in Spain, 7 credits in Mexico, or 4 credits in Costa Rica are applicable, all or in part, to a major or a minor in Spanish. Students interested in more information should contact the Department of Spanish.

Internships: Internships in Spain, Mexico, and Costa Rica are available through the department. Internships take place during the summer and vary from six weeks to two months in duration. Internship is a credit-bearing course, [SPAN 493](#), 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.

Bachelor of Arts–Spanish

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: 3cr Liberal Studies Electives: 9cr, no courses with SPAN prefix		53
College: Foreign Language (included in major)		0
Major: Study Abroad (1)		37
Required Courses:		
SPAN 201	Intermediate Spanish or equivalent	4cr
SPAN 220	Intermediate Spanish Conversation and Grammar	3cr
SPAN 230	Intermediate Spanish Composition	3cr
SPAN 260	Introduction to Hispanic Literature	3cr
SPAN 340	Hispanic Civilization Through the Nineteenth Century	3cr
SPAN 342/344	Twentieth-Century Spanish Civilization and Culture/Twentieth-Century Spanish-American Civilization and Culture	3cr
SPAN 350	Advanced Spanish Conversation	3cr
SPAN 362/364	Survey of Peninsular Literature/Survey of Spanish American Literature	3cr
SPAN 404	Advanced Spanish Grammar	3cr
Controlled Electives:		
At least two literature courses from those numbered 410-481		6cr
Any other 3cr in SPAN courses 342 or above except SPAN 390		3cr
Free Electives:		30
Total Degree Requirements:		120
(1) Students 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 cr 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 their advisor's approval.		

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Bachelor of Arts–Spanish for International Trade

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 115 Social Science: ECON 121 , PSYC 101 Liberal Studies Electives: 6cr, BTED/COSC/IFMG 101 , MATH 214 , no course with		52
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SPAN prefix		
College:		0
Foreign Language (included in major)		
Major:		30
Study Abroad (1)		
Required Courses:		
SPAN 222	Intermediate Spanish Conversation-Business	3cr
SPAN 230	Intermediate Spanish Composition	3cr
SPAN 260	Introduction to Hispanic Literature	3cr
SPAN 340	Hispanic Civilization Through the Nineteenth Century	3cr
SPAN 344	Twentieth-Century Spanish-American Civilization and Culture	3cr
SPAN 350	Advanced Spanish Conversation	3cr
SPAN 354	Commercial Spanish	3cr
SPAN 402	Translation and Interpretation	3cr
SPAN 404	Advanced Spanish Grammar	3cr
Controlled Electives:		
Any 3 Spanish credits in courses 362 or above except SPAN 390		3cr
Other Requirements: Business Sequence:		36
ACCT 201	Accounting Principles I	3cr
ACCT 202	Accounting Principles II	3cr
BLAW 235	Legal Environment of Business	3cr
BTST 321	Business and Interpersonal Communications	3cr
ECON 122	Principles of Microeconomics	3cr
FIN 310	Fundamentals of Finance	3cr
IFMG 300	Information Systems: Theory and Practice	3cr
MGMT 311	Human Behavior in Organizations	3cr
MGMT 330	Production and Operations Management	3cr
MGMT 495	Business Policy	3cr
MKTG 320	Principles of Marketing	3cr
QBUS 215	Business Statistics	3cr
Free Electives:		2
Total Degree Requirements:		120
(1) Students 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 cr 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 their advisor's approval.		

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B.S.Ed.–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 [“3-Step Process for Teacher Education”](#) in the College of Education and Educational Technology section of this catalog.

Mid-Program Review: Progress is reviewed in the semester in which students complete EDUC 242 with a grade of C or better and have at least 60 credits. At that point, students must meet the following departmental requirements.

1. Successfully complete an English essay. Students read a recent article dealing with innovations in teaching and are asked to respond to certain

questions in light of their coursework and teaching experiences at IUP.

2. Attain an intermediate-mid or higher level on an individual Oral Proficiency Interview in Spanish (ACTFL-ETS).
3. Satisfactorily complete an interview in English with the Spanish Education coordinator, a second faculty member from the Department of Spanish, and one cooperating teacher, in order to assess ability to interact with others on a professional level.
4. Hold at least a 3.0 GPA in Spanish.

Admission to Student Teaching:

1. Attain an advanced-low rating or higher on an individual Oral Proficiency Interview in Spanish (ACTFL-ETS).
2. Hold at least a 3.0 GPA in Spanish.
3. Earn a grade of C or higher in [SPAN 353](#) and [404](#).

Bachelor of Science in Education–Secondary Spanish Education (*)

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: 3cr Social Science: ANTH 110 , PSYC 101 Liberal Studies Electives: 9cr, MATH course (1), no courses with SPAN prefix			53
College:			29
Pre-Professional Education Sequence:			
COMM 103	Digital Instructional Technology	3cr	
EDSP 102	Educational Psychology	3cr	
Professional Education Sequence:			
EDEX 301	Education of Students with Disabilities in Inclusive Secondary Settings	2cr	
EDSP 477	Assessment of Student Learning: Design and Interpretation of Educational Measures	3cr	
EDUC 242	Pre-Student Teaching and Clinical Experience I	1cr	
EDUC 342	Pre-Student Teaching and Clinical Experience II	1cr	
EDUC 441	Student Teaching	12cr	
EDUC 442	School Law	1cr	
EDUC 453	Teaching of Foreign Languages in the Secondary School	3cr	
Major:			37
Study Abroad (2)			
Required Courses:			
SPAN 201	Intermediate Spanish or equivalent	4cr	
SPAN 220	Intermediate Spanish Conversation and Grammar	3cr	
SPAN 230	Intermediate Spanish Composition	3cr	
SPAN 260	Introduction to Hispanic Literature	3cr	
SPAN 340	Hispanic Civilization Through the Nineteenth Century	3cr	
SPAN342/344	Twentieth-Century Spanish Civilization and Culture/Twentieth-Century Spanish-American Civilization and Culture	3cr	
SPAN 350	Advanced Spanish Conversation	3cr	
SPAN 353	Spanish Phonetics and Phonemics	3cr	
SPAN 390	Teaching of Elementary Content Through the Spanish Language	3cr	
SPAN 404	Advanced Spanish Grammar	3cr	
Controlled Electives:			
Any other 3cr from SPAN 300 or above		3cr	
SPAN 362 , 364 , or a 400-level literature course		3cr	
Free Electives:			1
Total Degree Requirements:			120
(*) See requirements leading to teacher certification, titled " 3-Step Process for Teacher Education ," in the College of Education and Educational Technology section of this catalog.			

- (1) Students who do not wish to select a [MATH](#) course under the Liberal Studies Electives must still take a second [MATH](#) course in order to fulfill the state requirements.
- (2) Students 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 cr 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 their advisor's approval.

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Minor–Spanish

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Required Courses:		
SPAN 201	Intermediate Spanish or equivalent	4cr
SPAN 220	Intermediate Spanish Conversation and Grammar	3cr
SPAN 230	Intermediate Spanish Composition	3cr
SPAN 260	Introduction to Hispanic Literature	3cr
SPAN 342/344	Twentieth-Century Spanish Civilization and Culture/Twentieth-Century Spanish-American Civilization and Culture	3cr
SPAN 350	Advanced Spanish Conversation	3cr
Controlled Electives:		
One course from the following: SPAN 340 , 342 , 344 , 353 , 362 , 364		3cr

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Spanish Honors Track

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Required Courses:		
CHSS 489/H/	Honors Colloquium	3cr
SPAN 410-431	One course in Spanish Literature	3cr
SPAN 483/H/	Honors Thesis in Spanish	6cr

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Department of Biology

Chairperson: Carl S. Luciano

Faculty: Andrew, Ayebo, N. Bharathan, Brenneman, Browe, Butler, Ciskowski, Gendron, Hinrichsen, Irani, Jack, Larkin, Lord, Nealen, Newell, Peard, Peterson, Pistole, Simmons, Winstead

Professors emeriti: Gallati, Humphreys, Liegey, Linzey, Moore, Schrock

Website: www.iup.edu/biology

Bachelor of Science

Biology

- Program Requirements

Biology/Cell and Molecular Biology Track

- Program Requirements

Biology Pre-Veterinary Track

- Program Requirements

Biology Pre-Medical Track

- Program Requirements

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Cooperative Programs

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Foreign Language Requirement

Bachelor of Arts–Biology

- Program Requirements

B.S. in Education–Secondary Biology

- Program Requirements

B.S.–Environmental Health Science

- Program Requirements

Minors

Biology

- Minor Requirements

Environmental Health Science

- Program Requirements

University of Zimbabwe Department of Biological Sciences Exchange Program

Degrees offered by the Department of Biology are the Bachelor of Science degree in Biology, the Bachelor of Arts degree in Biology, the Bachelor of Science degree in Environmental Health Science, 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.

B.S.–Biology

In addition to the Bachelor of Science degree with no specialization, the department also offers specialized Bachelor of Science tracks in Cell and Molecular Biology, Pre-Veterinary, Pre-Medical, and Honors Biology.

The Bachelor of Science degree with a major in Biology with no specialization is designed to provide maximum depth in the sciences and mathematics combined with flexibility in the choice of ancillary science courses. This program allows the student (in consultation with the advisor) to select a suite of ancillary science and mathematics courses that is most appropriate to the student's specific interests within the field of biology. With proper selections from among ancillary science courses, a student could minor in any of the following: Biochemistry, Chemistry, Geoscience, or Applied Statistics. Furthermore, with proper selection of free electives, a student could minor in either Mathematics or Physics.

B.A.–Biology

The Bachelor of Arts degree with a major in Biology is designed for students who wish to combine a primary academic interest in Biology with a

secondary interest in a complementary field. Through the choice of complementary field and free electives, this curriculum allows the greatest overall flexibility in a student's program of study. The complementary field also allows pursuit of a minor or a double major in the secondary area of interest. The primary Biology major combined with a double major or a minor in the complementary field can make an attractive educational package for the student and for potential employers. Examples of complementary fields that might enhance a student's competitiveness in the job market include Anthropology, Business Administration, Computer Science, Criminology (for forensic science), English (for technical writing), Foreign Language, Geoscience, Marketing, or Psychology.

B.S.–Environmental Health Program

The Environmental Health Science program provides a strong foundation in the natural sciences and mathematics, on which an understanding of environmental health issues is built. The program focuses on environmental factors that can adversely impact human health. Such factors include ambient and indoor air pollutants, food and water contaminants, solid and hazardous wastes, vector-borne and communicable diseases, housing and shelter hazards, and ecological and global stressors. The curriculum emphasizes analytical and problem-solving skills to identify, evaluate, and manage these environmental factors. Graduates are prepared for employment as environmental health specialists and practitioners in industry, government, and academia and for entry into graduate school programs in environmental and public health.

B.S.–Biology/Cell and Molecular Biology Track

Students electing the Bachelor of Science degree with an emphasis in Cell and Molecular Biology will take the core Biology courses and, in addition, a collection of upper-division courses that focus collectively on important aspects of modern cell and molecular biology. This track will prepare students for employment in technical positions or for graduate studies in cell biology, molecular biology, biotechnology, or related biomedical disciplines.

B.S. in Education–Secondary Biology

The Department of Biology, in conjunction with the College of Education and Educational Technology, provides a program leading to the Bachelor of Science 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.

Biology Honors Program

The honors program is open by departmental permission to all majors within the Department of Biology. Students who, by the end of the first semester of their sophomore year, have a minimum 3.25 cumulative GPA will be invited to apply for the program. The application will include a transcript and a personal statement outlining the student's academic plan, career goals, and why she or he wants to be considered for the honors program. A department honors committee (makeup to be determined by the department) will select a maximum of twelve students per year for the program.

Students accepted into the program will take [BIOL 484](#) during the first semester of their junior year, two semesters of [BIOL 483](#), and one 500/600-level biology course. The honors thesis will be based on research performed under the supervision of a department professor who specializes in the student's area of interest and must be approved by a thesis committee made up of the faculty member directing the student and two others, one of whom may come from outside the Department of Biology.

Students interested in the Biology Honors Program should discuss this opportunity with their advisors as early as possible so that they have achieved the necessary GPA and are prepared to make application for the program in the spring of their sophomore year. This program, though designed for all qualified students within the Department of Biology, should be of particular value to students intending to seek admission to graduate or professional schools. Honors coursework is designated on university transcripts. Students completing the departmental honors program are recognized at departmental commencement ceremonies.

Minor in Environmental Health Science

The minor in Environmental Health Science provides a survey of the technical areas in environmental health and protection, with an introduction to epidemiology and toxicology that are fundamental to the field. The minor consists of 20 credits in [BIOL](#) and [ENVH](#) courses. Three additional non-[BIOL](#) and non-[ENVH](#) courses in the Natural Sciences and Mathematics are needed as prerequisites. This minor is particularly well suited for students interested in human and ecological health issues who are majoring in Biochemistry, Biology, Chemistry, Geology, Natural Science, or Safety Sciences.

Foreign Language Requirement

Some Biology majors must complete intermediate level or two semesters of foreign language starting at the highest level recommended by the

freshman Preregistration 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. See individual tracks and programs for specific requirements.

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Cooperative Programs

The Biology Department cooperates in programs with Jefferson Medical College, Lake Erie College of Osteopathic Medicine, Duke University School of Forestry and Environmental Studies, and Pymatuning Laboratory of Ecology.

- **Duke Cooperative College Program in Forestry and Environmental Studies**

The Cooperative College program with Duke University School of the Environment (www.env.duke.edu) 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 this 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 or Master of Environmental Management.

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.

- **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 rural communities of Pennsylvania where there is a shortage of physicians. Students interested in this program should enroll as Family Medicine majors.

This 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.

- **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 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.

- **Lake Erie College of Osteopathic Medicine**

Lake Erie College of Osteopathic Medicine and IUP have a cooperative "3+4" program. Students will be awarded a Bachelor of Science degree in Biology from IUP upon successful completion of the first-year curriculum at Lake Erie College of Osteopathic Medicine and of the undergraduate requirements at IUP. In order to be considered for the program, students must be in the top 25 percent of their graduating class, have a minimum SAT score of 1150 (recentered), and have additional documented evidence of scholarly/professional potential, leadership, and community involvement. While at IUP, these students must meet the following requirements:

1. Cumulative GPA of 3.2 or better overall
2. Cumulative GPA of 3.2 or better in prescribed science courses
3. A grade of C or better in all courses
4. Successful completion of Liberal Studies and required courses by the end of the third year
5. Successful completion of MCAT (Medical College Admission Test) no later than the spring semester of the third year with desired scores of 7 or better in each subtest and an overall score of 24 or better
6. Favorable letter of recommendation from the Pre-medical Advisory Committee
7. Completion of AACOMAS application

- **Marine Science Consortium**

Biology majors interested in marine biology are encouraged to investigate summer courses offered through the Marine Science Consortium. 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, Va. 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. IUP is not currently a member institution; students may register for courses offered at the consortium through any participating institution. See www.msconsortium.org/Welcome.htm for a complete listing.

- **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 and vary annually. Application and registration for both summer sessions must be completed by April 1. Students usually register for credit and pay fees at IUP. Books, lab fee, and room and board are paid to the Pymatuning Laboratory of Ecology. The faculty advisor for this program assists students in program planning, application, and registration.

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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.

Degree Programs

In the programs of study that follow, no more than 6 credits total from internships, independent study, and special topics can be counted toward biology course requirements. Credits beyond 6 earned from these sources are counted as general electives. Note: Students changing into the majors of Biology, Biology Education, or Environmental Health Science are required to have a 2.5 cumulative GPA or permission of the chairperson.

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Bachelor of Arts–Biology

Liberal Studies: As outlined in Liberal Studies section with the following specifications:		48
Mathematics: MATH 121 or 217		
Natural Science: CHEM 111-112		
Liberal Studies Electives: 3cr, no courses with BIOL prefix		
Major:		32
Required Courses:		
BIOL 111	Principles of Biology I	4cr
BIOL 112	Principles of Biology II	4cr
BIOL 210	Botany	3cr
BIOL 220	General Zoology	3cr

BIOL 250	Principles of Microbiology	3cr
BIOL 263	Genetics	3cr
Controlled Electives:		
Biology electives (major courses only) (1)		12cr
Other Requirements:		
		23-24
PHYS 111	Physics I Lecture	3cr
PHYS 121	Physics I Lab	1cr
Ancillary Science Courses: An additional 4-5 cr from the following: (2, 3) BIOC: 301 , 302 , 311 , 312 CHEM: 231 , 232 , 321 , 323 , 351 GEOS: 121 and 122 , 131 and 132 , 141 , 310 , 330 , 331 , 361 MATH: 122 , 216 or 217 (2), 417 , 418 PHYS: 112 and 122 , 151		4-5cr
Planned Program in Complementary Field (requires advisor approval) with at least 6cr in 300/400-level courses (4)		15cr
Other Requirements:		
Foreign Language Intermediate Level (5)		0-6
		0-6cr
Free Electives:		
		10-17
Total Degree Requirements:		
		120
<p>(1) No more than 6cr total from Independent Study, Special Topics, or Internship applies to major; excess applied as free electives.</p> <p>(2) If MATH 121 (4cr) is elected as the Liberal Studies MATH course, the additional requirement is 4cr; if MATH 217 (3cr) is elected, the additional requirement is 5cr. The mathematics course counted in Liberal Studies can not also count in ancillary courses.</p> <p>(3) Other appropriate major courses in the above departments may be substituted for one or more of those on the above list with the approval of the student's advisor.</p> <p>(4) Recommended complementary fields include anthropology, Art, Business, Chemistry, Communications Media, Computer Science, Criminology, Dietetics, Economics, English, Foreign Language, Geography, Geoscience, Journalism, Mathematics, Physics, Political Science, Psychology, Regional Planning, or Safety Sciences. Some courses in complementary field may also fulfill Liberal Studies requirements (see Liberal Studies section). However, if complementary field selected is Chemistry, Geoscience, Mathematics, or Physics, courses used to fulfill the ancillary science requirement above may not be applied to the complementary field requirement of 15cr.</p> <p>(5) Two courses beyond placement or intermediate level.</p>		

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Bachelor of Science–Biology

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 121 or 217 Natural Science: CHEM 111-112 Liberal Studies Electives: 3cr, no courses with BIOL prefix	48	
Major:	38	
Required Courses:		
BIOL 111	Principles of Biology I	4cr
BIOL 112	Principles of Biology II	4cr
BIOL 210	Botany	3cr
BIOL 220	General Zoology	3cr
BIOL 250	Principles of Microbiology	3cr
BIOL 263	Genetics	3cr

Controlled Electives:		
Biology electives (major courses only) (1)	18cr	
Other Requirements: (2)		24-25
PHYS 111 Physics I Lecture	3cr	
PHYS 121 Physics I Lab	1cr	
Ancillary Science Courses: An additional 20-21cr from the following: (3, 4) BIOC: 301 , 302 , 311 , 312 CHEM: 231 , 232 , 321 , 323 , 351 GEOS: 121 and 122 , 131 and 132 , 141 , 310 , 330 , 331 , 361 MATH: 122 , 216 or 217 (3), 417 , 418 PHYS: 112 and 122 , 151	20-21cr	
Other Requirements:		0-6
Foreign Language Intermediate Level (5)	0-6cr	
Free Electives:		3-10
Total Degree Requirements:		120
<p>(1) No more than 6cr total from Independent Study, Special Topics, or Internship applies to major; excess applied as free electives.</p> <p>(2) 21cr if the student elects MATH 121 in Liberal Studies or 22cr if the student elects to take MATH 217.</p> <p>(3) If MATH 121 (4cr) is elected as the Liberal Studies MATH course, the additional requirement is 20cr; if MATH 217 (3cr) is elected, the additional requirement is 21cr. The mathematics course counted in Liberal Studies can not also count in ancillary courses.</p> <p>(4) Other appropriate major courses in the above departments may be substituted for one or more of those on the above list with the approval of the student's advisor.</p> <p>(5) Two courses beyond placement or intermediate level. In lieu of a foreign language, students in programs or tracks other than the Pre-Medical Track and the Pre-Veterinary Track may elect to take a sequence of courses in either Computer Science, exclusive of COSC 101 (COSC 110 and 210 recommended), or Regional Planning (from the following: RGPL 213, 314, 316, 415).</p>		

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Bachelor of Science–Biology/Cell and Molecular Biology Track

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 121 Natural Science: CHEM 111-112 Liberal Studies Electives: 3cr, PHYS 111 , no courses with BIOL prefix		48
Major:		38
Required Courses:		
BIOL 111 Principles of Biology I	4cr	
BIOL 112 Principles of Biology II	4cr	
BIOL 123 Perspectives in Cell and Molecular Biology	1cr	
BIOL 210 Botany	3cr	
BIOL 220 General Zoology	3cr	
BIOL 250 Principles of Microbiology	3cr	
BIOL 263 Genetics	3cr	
BIOL 401 Laboratory Methods in Biology and Biotechnology	3cr	
BIOL 410 Molecular Biology Topics	3cr	
Controlled Electives: (1) BIOL 151 , 269 , 271 , 281 (2), 323 , 331 , 352 , 362 , 363 , 364 , 453 , 460 , 466 , 476 , 477 ,	11cr	

481 (2), 482 (2), 493 (2)		
Ancillary Science Requirements :		24
Organic Chemistry Sequence:		
CHEM 231	Organic Chemistry I	4cr
CHEM 232	Organic Chemistry II	4cr
Biochemistry Sequence:		
BIOC 301	Biochemistry I	3cr
BIOC 302	Biochemistry II	3cr
BIOC 311	Biochemistry Laboratory I	1cr
BIOC 312	Biochemistry Laboratory II	1cr
Other Science/Mathematics Requirements:		
PHYS 121	Physics I Lab	1cr
MATH 217	Probability and Statistics	3cr
Science/Mathematics Elective:		4cr
An additional 4cr in ancillary science/mathematics from the following: (3)		
BIOC 480 , 481 , CHEM 321 , 323 , 331 , 340 , MATH 122 , PHYS 112 , 122		
Other Requirements:		0-6
Foreign Language Intermediate Level (4)		0-6cr
Free Electives:		4-10
Total Degree Requirements:		120
<p>(1) No more than 6cr total from Independent Study, Special Topics, Internship applies to major; excess applied as free electives.</p> <p>(2) No more than 3cr may count toward Controlled Elective requirements.</p> <p>(3) Other appropriate majors courses in these departments may be substituted for one or more of those on the above list with the approval of the student's advisor.</p> <p>(4) Two courses beyond placement or intermediate level. Foreign Language course may count as Liberal Studies Elective (see Liberal Studies section). In lieu of a foreign language the student may elect to take a sequence of courses in Computer Science exclusive of COSC 101 (COSC 110 and 210 recommended).</p>		

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Bachelor of Science–Biology/Pre-Veterinary Track

Liberal Studies: As outlined in Liberal Studies section with the following specifications:		48
Mathematics: MATH 121		
Natural Science: CHEM 111-112		
Liberal Studies Electives: 3cr, PSYC 101 , no courses with BIOL prefix		
Major:		38
Required Courses:		
Biology Core Courses:		
BIOL 111	Principles of Biology I	4cr
BIOL 112	Principles of Biology II	4cr
BIOL 210	Botany	3cr
BIOL 220	General Zoology	3cr
BIOL 250	Principles of Microbiology	3cr
BIOL 263	Genetics	3cr
Additional Required Biology Courses:		
BIOL 242	Comparative Vertebrate Anatomy	3cr
BIOL 331	Animal Developmental Biology	3cr
BIOL 352	Comparative Animal Physiology	3cr
Controlled Biology Electives: (1)		
BIOL 151 , 269 , 271 , 363 , 364 , 401 , 405 , 453 , 466 , 476 , 477 , 481 , 482 , 493		

Ancillary Science Requirements:		20
Chemistry Sequence		
CHEM 231	Organic Chemistry I	4cr
CHEM 232	Organic Chemistry II	4cr
CHEM 351	Biochemistry	4cr
Physics Sequence:		
PHYS 111	Physics I Lecture	3cr
PHYS 121	Physics I Lab	1cr
PHYS 112	Physics II Lecture	3cr
PHYS 122	Physics II Lab	1cr
Mathematics:		4
MATH 216	Probability and Statistics for Natural Sciences	4cr
Other Requirements:		0-6
Foreign Language Intermediate Level		0-6cr
Free Electives:		4-10
Total Degree Requirements:		120
(1) No more than 6cr total from Independent Study, Special Topics, and Internship applies to major; excess applied as free electives.		

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Bachelor of Science–Biology/Pre-Medical Track

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 121 Natural Science: CHEM 111-112 Liberal Studies Electives: 3cr, no courses with BIOL prefix		48
Major:		38
Required Courses:		
Biology Core Courses:		
BIOL 111	Principles of Biology I	4cr
BIOL 112	Principles of Biology II	4cr
BIOL 210	Botany	3cr
BIOL 220	General Zoology	3cr
BIOL 250	Principles of Microbiology	3cr
BIOL 263	Genetics	3cr
Additional Required Biology Courses:		
BIOL 242	Comparative Vertebrate Anatomy	3cr
BIOL 331	Animal Developmental Biology	3cr
BIOL 352	Comparative Animal Physiology	3cr
Controlled Biology Electives: (1)		9cr
BIOL 151, 269, 271, 363, 364, 401, 405, 453, 466, 476, 477, 481, 482, 493		
Ancillary Science Requirements:		20
Chemistry Sequence		
CHEM 231	Organic Chemistry I	4cr
CHEM 232	Organic Chemistry II	4cr
CHEM 351	Biochemistry	4cr
Physics Sequence:		
PHYS 111	Physics I Lecture	3cr

PHYS 121	Physics I Lab	1cr
PHYS 112	Physics II Lecture	3cr
PHYS 122	Physics II Lab	1cr
Mathematics:		4
MATH 216	Probability and Statistics for Natural Sciences	4cr
Other Requirements:		0-6
Foreign Language Intermediate Level		0-6cr
Free Electives:		4-10
Total Degree Requirements:		120
(1) No more than 6cr total from Independent Study, Special Topics, and Internship applies to major; excess applied as free electives.		

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Bachelor of Science in Education–Biology (*)

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 110 or 121 Natural Science: CHEM 111-112 Social Science: PSYC 101 Liberal Studies Electives: 9cr, MATH 217 , PHYS 151 , one course with GEOS prefix from the Liberal Studies Natural Science (Option II) Nonlaboratory List, no courses with BIOL prefix		54
College of Education:		29
Preprofessional Education Sequence:		
COMM 103	Digital Instructional Technology	3cr
EDSP 102	Educational Psychology	3cr
Professional Education Sequence:		
EDEX 301	Education of Students with Disabilities in Inclusive Secondary Settings	2cr
EDSP 477	Assessment of Student Learning: Design and Interpretation of Educational Measures	3cr
EDUC 242	Pre-student Teaching Clinical Experience I	1cr
EDUC 342	Pre-student Teaching Clinical Experience II	1cr
EDUC 441	Student Teaching (1)	12cr
EDUC 442	School Law	1cr
EDUC 451	Teaching Science in the Secondary School	3cr
Major: (1)		29
Required Courses:		
BIOL 111	Principles of Biology I	4cr
BIOL 112	Principles of Biology II	4cr
BIOL 210	Botany	3cr
BIOL 220	General Zoology	3cr
BIOL 250	Principles of Microbiology	3cr
BIOL 263	Genetics	3cr
BIOL 480	Biology Seminar	1cr
Controlled Electives: (2)		
Biology electives: (major courses only)		8cr
Other Requirements:		8

Chemistry Sequence:		
CHEM 231	Organic Chemistry I	4cr
CHEM 351	Biochemistry (3)	4cr
(#) Total Degree Requirements:		120
<p>(*) See requirements leading to teacher certification, titled "3-Step Process for Teacher Education," in the College of Education and Educational Technology section of this catalog.</p> <p>(1) Eligibility for student teaching and certification in secondary biology education will require a grade of C or better in all biology courses and a cumulative combined GPA of 2.75 or better in biology and education courses.</p> <p>(2) No more than 6cr from BIOL 482, 481, 493 applies to major; excess applied as free electives.</p> <p>(3) The two-semester (6cr) sequence of BIOC 301-302 can be substituted for CHEM 351 to meet the biochemistry requirement.</p> <p>(#) See advisory paragraph "Timely Completion of Degree Requirements" in the section on Requirements for Graduation.</p>		

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Bachelor of Science–Environmental Health Science

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 121 Natural Science: CHEM 111-112 Social Science: ECON 101 , PSYC 101 or SOC 151 Liberal Studies Electives: 7cr, BTED/COSC/IFMG 101 , MATH 216 , no courses with ENVH prefix	53	
Major:	29	
Required Courses:		
BIOL 111	Principles of Biology I	4cr
BIOL 112	Principles of Biology II	4cr
BIOL 241	General Microbiology	3cr
BIOL 480	Biology Seminar	1cr
BIOL 493	Biology Internship (1)	5cr
ENVH 221	Environmental Health and Protection I	3cr
ENVH 222	Environmental Health and Protection II	3cr
ENVH 323	Introduction to Toxicology and Risk Assessment	3cr
ENVH 460	Fundamentals of Environmental Epidemiology	3cr
Other Requirements:		38
Required Courses:		
CHEM 231	Organic Chemistry I	4cr
PHYS 111	Physics I Lecture	3cr
PHYS 121	Physics I Lab	1cr
PLSC 250	Public Policy	3cr
PLSC 370 or MGMT 310	Introduction to Public Administration <i>or</i> Principles of Management	3cr
SAFE 101	Intro to Occupational Safety and Health	3cr
SAFE 410	Environmental Safety and Health Regulations	3cr
Controlled Electives: Six courses from the following:		18cr
BIOL 220 , CHEM 323 , ENVH 281 , 310 , 481 , 482 , GEOS 121 , 122 , 331 , PHYS 112 , 122 , RGPL 213 , 316 , 350 , SAFE 301 , 402 , 461 , 462		
Total Degree Requirements:		120
(1) Eligibility for a summer internship requires a minimum GPA of 2.5 and a grade of C or better in all BIOL and ENVH courses.		

Minor–Biology**20**

Required Courses:		
BIOL 103-104 <i>or</i> BIOL 111-112	General Biology I and II <i>or</i> Principles of Biology I and II	8cr
Additional BIOL courses (1, 2)		12cr
Other Requirements:		
Student must have at least a 2.0 GPA in all BIOL courses for the minor.		
Student must take at least 6cr of biology courses at IUP.		
Must have permission of biology department chairperson.		
(1) With approval of department chairperson.		
(2) At least 8 of the 12 required additional BIOL cr must come from 200-level or higher courses.		

Minor–Environmental Health Science**20**

Required Courses:		
BIOL 103-104 <i>or</i> BIOL 111-112	General Biology I and II (1) <i>or</i> Principles of Biology I and II	8cr
ENVH 221	Environmental Health and Protection I (2)	3cr
ENVH 222	Environmental Health and Protection II (2)	3cr
BIOL/ENVH 323	Introduction to Toxicology and Risk Assessment (2)	3cr
BIOL/ENVH 460	Fundamentals of Environmental Epidemiology (3)	3cr
(1) BIOL 151 or 155 can be substituted for BIOL 104 .		
(2) Prerequisites include CHEM 102 or 112 .		
(3) Prerequisites include MATH 216 or 217 .		

Biology Honors Track**9**

BIOL 484	Honors Seminar (1)	2cr
BIOL 483	Honors Thesis/Independent Study (1, 2)	4cr
BIOL 5XX/6XX	Graduate-level course (3)	3cr
(1) May be counted toward the following majors: B.A., B.S., and B.S.Ed. in Biology.		
(2) Two semesters, 2cr each.		
(3) Students must take one course at the 500/600 level during their junior or senior year. This will be in addition to the biology credits (currently 38 for all tracks) required for the major.		

Biochemistry Program

Co-Coordinator: Jonathan N. Southard and N. Bharathan
Faculty: Butler, Hinrichsen, Luciano, Sowa, Biology and Chemistry faculties
Professor emeritus: Harding

Website: <http://www.iup.edu/biochemistry>

Bachelor of Science–Biochemistry Minor–Biochemistry

The B.S. degree with a major 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. degree with a major 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.

This program is intended for students whose interests lie in a most exciting field of modern science. Graduates 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.

Bachelor of Science–Biochemistry

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 123 Natural Science: PHYS 131-141 and 132-142 Liberal Studies Electives: 4cr, MATH 124 , no courses with BIOC prefix		50
Major:		51
Required Courses:		
BIOC 301	Biochemistry I	3cr
BIOC 302	Biochemistry II	3cr
BIOC 311	Biochemistry Laboratory I	1cr
BIOC 312	Biochemistry Laboratory II	1cr
BIOC 480	Biochemistry Seminar I (1)	1cr
BIOC 481	Special Topics in Biochemistry	3cr
BIOC 482	Independent Research in Biochemistry	2cr
BIOC 490	Biochemistry Seminar II (1)	1cr
BIOL 111	Principles of Biology I	4cr
BIOL 250	Principles of Microbiology	3cr

BIOL 263	Genetics	3cr
BIOL 401	Laboratory Methods in Biology and Biotechnology	3cr
CHEM 113	Concepts in Chemistry I	4cr
CHEM 114	Basic Inorganic Chemistry	4cr
CHEM 231	Organic Chemistry I	4cr
CHEM 232	Organic Chemistry II	4cr
CHEM 323	Analytical Methods	4cr
CHEM 340	Physical Chemistry for the Biological Sciences	3cr
Controlled Electives:		6-7
Advanced Biology course chosen from the following: BIOL 331 , 350 , 352 , 364 , or 453		3cr
Either MATH 216 or COSC 110		3-4cr
Other Requirements:		0-6
Foreign Language Intermediate Level		
Free Electives:		6-13
Total Degree Requirements:		120
(1) 1cr each semester of senior year.		

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Minor–Biochemistry

17-20

Total credits will depend on the controlled electives used
(9cr minimum required to 12cr for three 4cr electives)

Required Courses:		8
BIOC 301	Biochemistry I (1a)	3cr
BIOC 302	Biochemistry II	3cr
BIOC 311	Biochemistry Laboratory I (1a)	1cr
BIOC 312	Biochemistry Laboratory II	1cr
Other Requirements:		9-12
At least three controlled electives from following: (1)		
BIOC 480	Biochemistry Seminar I	1cr
BIOC 481	Special Topics in Biochemistry	1-3cr
BIOC 490	Biochemistry Seminar II	1cr
BIOL 250	Principles of Microbiology (1b, d)	3cr
BIOL 263	Genetics (1b)	3cr
BIOL 350	Cellular Physiology	3cr
BIOL 352	Comparative Animal Physiology (1d)	3cr
BIOL 364	Immunology (1d)	3cr
BIOL 401	Laboratory Methods in Biology and Biotechnology (1d)	3cr
BIOL 453	Plant Physiology (1d)	3cr
CHEM 232	Organic Chemistry II (1c)	4cr
CHEM 322	Instrumental Analysis (1c, d)	4cr
CHEM 323	Analytical Methods	4cr
(1) Or other 200-level or higher Biology or Chemistry courses with permission of chairperson of offering department. A minimum of 9cr 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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Department of Chemistry

Chairperson: John C. Woolcock

Faculty: Abourahma, Briggs, Eddy, Elcesser, Ford, Ko, Kondo, Kupchella, Lake, LeBlond, Long, McElroy, See, Southard, Sowa, Villemain, Wood

Professors emeriti: Bordas, Costa, Crumm, Fazio, Harding, Marks, McKelvey, Patsiga, Scroxton, Syty, Tackett, Varughese, Wunz, Zambotti

Website: www.iup.edu/chemistry

Chemistry

- **Bachelor of Arts**
- **Bachelor of Science**
- **Bachelor of Science in Education**
- **Minor**

Chemistry/Pre-Medical Track

- **Bachelor of Science**
-

Degrees offered by the Department of Chemistry are the Bachelor of Science with a Chemistry major, the Bachelor of Science with a Chemistry/Pre-Medical Track, the Bachelor of Arts with a Chemistry major, and the Bachelor of Science in Education with a Chemistry major. A Pre-Medical concentration is available in the B.A. curricula. Preparatory programs for other professional schools can be developed for either degree. A minor in chemistry is also offered.

The B.S. degree with a Chemistry major 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 pursue graduate studies leading to the M.S. or Ph.D. degree in chemistry, biochemistry, materials science, forensic science, or an associated field. The Pre-Medical Track includes all courses required for entrance into medical school and gives the student the flexibility of choosing medical school or graduate school after graduation.

The curriculum leading to the B.A. degree with a Chemistry major is designed to allow for the workable union of other disciplines 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 persons with scientific training, and, at the same time, satisfy the entrance requirements of various professional and graduate schools. This degree may also be of interest to students who have completed a significant number of semester hours in another degree program and decide they want to earn a degree in chemistry. The Pre-Medical concentration includes all courses required for entrance into medical school.

The B.A. degree with a Chemistry major can incorporate a complementary program in almost any other field in the university; some disciplines which make useful combinations include biology, business administration, computer science, criminology (forensic science), English (technical writing), geoscience, government, physics, and safety science. In particular, a student seeking a career in forensic science should major in chemistry.

Either degree in chemistry provides excellent preparation for entrance into a variety of professional schools, including dental, veterinary, pharmacy, chiropractic, and law. The student considering going to one of these professional schools after completion of a chemistry degree should work closely with his or her advisor and select additional courses as required by the professional school.

The curriculum leading to the B.S.Ed. degree 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 of the teacher certification process, the student is eligible for

Pennsylvania certification by the Pennsylvania Department of Education. The B.S.Ed. degree with a Chemistry major program is also certified by the American Chemical Society.

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Bachelor of Arts–Chemistry

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 123 Natural Science: PHYS 111-121 and 112-122 <i>or</i> PHYS 131-141 and 132-142 Liberal Studies Electives: 3cr, no courses with CHEM prefix		49
Major:		30-33
Required Courses:		
CHEM 113	Concepts in Chemistry I	4cr
CHEM 114	Concepts in Chemistry II	4cr
CHEM 214	Intermediate Inorganic Chemistry	2cr
CHEM 231	Organic Chemistry I	4cr
CHEM 232	Organic Chemistry II	4cr
CHEM 321	Quantitative Analysis	4cr
CHEM 341	Physical Chemistry I	4cr
CHEM 343	Physical Chemistry Laboratory I	1cr
Controlled Electives: (2)		
At least 3cr from the following: CHEM 301 , 322 , 342 , 351 , 410 , 411 , BIOC 301 , 302 , 311		3-6cr
Other Requirements:		
MATH 124	Calculus II for Physics, Chemistry, and Mathematics	4cr
Planned program (with advisor approval) in complementary field of at least 15cr, with at least 6cr of 300/400-level courses (3)		15cr
Foreign Language Intermediate Level (4)		0-3cr
Free Electives:		
16-22		
Total Degree Requirements:		120
(1) CHEM 111 and 112 can be substituted for CHEM 113 and 114 . (2) Students electing a concentration in Pre-Medicine must take CHEM 351 (4cr) or BIOC 301 and 302 (6cr). (3) Students electing a concentration in Pre-Medicine must take BIOL 111 , 151 , 263 , 331 and a 300-level BIOL elective. (4) Intermediate-level foreign language may be included as Liberal Studies elective.		

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Bachelor of Science–Chemistry

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 123 Natural Science: PHYS 131-141 and 132-142 Liberal Studies Electives: 3cr, no courses with CHEM prefix		49
Major:		45
Required Courses:		
CHEM 113	Concepts in Chemistry I	4cr
CHEM 114	Concepts in Chemistry II (1)	4cr
CHEM 214	Intermediate Inorganic Chemistry	2cr
CHEM 231	Organic Chemistry I	4cr

CHEM 232	Organic Chemistry II	4cr	
CHEM 301	Introduction to Chemical Research	1cr	
CHEM 321	Quantitative Analysis	4cr	
CHEM 322	Instrumental Analysis	4cr	
CHEM 341	Physical Chemistry I	4cr	
CHEM 342	Physical Chemistry II	3cr	
CHEM 343	Physical Chemistry Laboratory I	1cr	
CHEM 344	Physical Chemistry Laboratory II	1cr	
CHEM 410	Advanced Inorganic Chemistry Laboratory	1cr	
CHEM 411	Advanced Inorganic Chemistry	3cr	
CHEM 498	Problems in Chemistry	2cr	
Controlled Electives: (2)			
Additional Chemistry electives from the following: CHEM 331 , 421 , 435 , 441 , 481		3cr	
Other Requirements:			14-18
BIOC 301	Biochemistry I	3cr	
BIOL 111	Principles of Biology I	4cr	
MATH 124	Calculus II for Physics, Chemistry, and Mathematics	4cr	
One additional mathematics elective from the following: MATH 171 , 241 , 342		3-4cr	
Foreign Language Intermediate Level (3)		0-3cr	
Free Electives:			8-12
Total Degree Requirements:			120
(1) CHEM 111 and 112 can be substituted for CHEM 113 and 114 .			
(2) Qualifying students can also use 500- or 600-level CHEM courses to meet this requirement.			
(3) Intermediate-level Foreign Language may be included in Liberal Studies elective.			

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Bachelor of Science–Chemistry/Pre-Medical Track

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 123 Natural Science: PHYS 131-141 and 132-142 Liberal Studies Electives: 4cr, MATH 124 , no courses with CHEM prefix			50
Major:			45
Required Courses:			
CHEM 113	Concepts in Chemistry I	4cr	
CHEM 114	Concepts in Chemistry II	4cr (1)	
CHEM 214	Intermediate Inorganic Chemistry	2cr	
CHEM 231	Organic Chemistry I	4cr	
CHEM 232	Organic Chemistry II	4cr	
CHEM 301	Introduction to Chemical Research	1cr	
CHEM 321	Quantitative Analysis	4cr	
CHEM 322	Instrumental Analysis	4cr	
CHEM 341	Physical Chemistry I	4cr	
CHEM 342	Physical Chemistry II	3cr	
CHEM 343	Physical Chemistry Laboratory I	1cr	
CHEM 344	Physical Chemistry Laboratory II	1cr	
CHEM 410	Advanced Inorganic Chemistry Laboratory	1cr	
CHEM 411	Advanced Inorganic Chemistry	3cr	
CHEM 498	Problems in Chemistry	2cr	
Controlled Electives: (2)			
Additional Chemistry electives from the following: CHEM 331 , 421 , 435 , 441 , 481		3cr	

Other Requirements:		20-25
BIOC 301	Biochemistry I	3cr (3)
BIOL 111	Principles of Biology I	4cr
BIOL 151	Human Physiology	4cr
BIOL 263	Genetics	3cr
BIOL 331	Animal Developmental Biology	3cr
One additional mathematics elective from the following: MATH 171, 241, 342		3-4cr
Foreign Language Intermediate Level		0-4cr
Free Electives:		0-5
Total Degree Requirements:		120
<p>(1) CHEM 111 and 112 can be substituted for CHEM 113 and 114.</p> <p>(2) Qualifying students can also use 500- or 600-level CHEM courses to meet this requirement.</p> <p>(3) CHEM 351 may be substituted for BIOC 301.</p>		

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Bachelor of Science in Education–Chemistry (*)

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 123, 124 Natural Science: PHYS 111-121 and 112-122 Social Science: PSYC 101 Liberal Studies Electives: 0cr		50
College:		29
Preprofessional Education Sequence:		
COMM 103	Digital Instructional Technology	3cr
EDSP 102	Educational Psychology	3cr
Professional Education Sequence:		
EDEX 301	Education of Students with Disabilities in Inclusive Secondary Settings	2cr
EDSP 477	Assessment of Student Learning: Design and Interpretation of Educational Measures	3cr
EDUC 242	Pre-student Teaching Clinical Experience I	1cr
EDUC 342	Pre-student Teaching Clinical Experience II	1cr
EDUC 441	Student Teaching	12cr
EDUC 442	School Law	1cr
EDUC 451	Teaching Science in the Secondary School	3cr
Major:		32
Required Courses:		
CHEM 113	Concepts in Chemistry I (1)	4cr
CHEM 114	Concepts in Chemistry II (1)	4cr
CHEM 214	Intermediate Inorganic Chemistry	2cr
CHEM 231	Organic Chemistry I	4cr
CHEM 232	Organic Chemistry II	4cr
CHEM 321	Quantitative Analysis	4cr
CHEM 341	Physical Chemistry I	4cr
CHEM 343	Physical Chemistry Laboratory I	1cr
CHEM 499	Problems in Chemistry Education	1cr
Controlled Electives: (2)		4cr
Select 4cr from the following: CHEM 322, 342, 344, 351, 410, 411, BIOC 301, 311		


Other Requirements:			8
BIOL 111	Principles of Biology I	4cr	
GEOS 111 <i>or</i> GEOS 113	Earth Science for Educators I <i>or</i> Earth Science for Educators II	3cr	
GEOS 112 <i>or</i> GEOS 114	Earth Science for Educators I Lab <i>or</i> Earth Science for Educators II Lab	1cr	
Free Elective:			1
(#) Total Degree Requirements:			120
<p>(*) See requirements leading to teacher certification, titled "3-Step Process for Teacher Education," in the College of Education and Educational Technology section of this catalog.</p> <p>(1) CHEM 111 and 112 can be substituted for CHEM 113 and 114.</p> <p>(2) A minimum of 6cr of Controlled Electives, including either CHEM 351 or BIOC 301, is required for the ACS-certified degree in Chemistry Education.</p> <p>(#) See advisory paragraph "Timely Completion of Degree Requirements" in the section on Requirements for Graduation.</p>			

Minor–Chemistry

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Required Courses:		
CHEM 111 <i>or</i> CHEM 113	General Chemistry I <i>or</i> Concepts in Chemistry I	4cr
CHEM 112 <i>or</i> CHEM 114	General Chemistry II <i>or</i> Concepts in Chemistry II	4cr
CHEM 231	Organic Chemistry I	4cr
CHEM 232	Organic Chemistry II	4cr
At least 4 additional cr from the following: CHEM 321 , 323 , 341 , 351		4cr

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Department of Computer Science

Chairperson: William W. Oblitey
Faculty: Ali, Ezekiel, Farag, O'Neil, Shubra, Shumba, Smith, Wolfe
Professor emeritus: Tompkins

Website: www.iup.edu/compsci

Bachelor of Arts–Computer Science

Bachelor of Science–Computer Science

- [Applied Computer Science Track](#)
- [Languages and Systems Track](#)
- [Information Assurance Track](#)

Minors

- [Computer Science](#)
 - [Information Assurance](#)
-

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 to:

1. program well, both in design and implementation phases, and document what they have programmed
 2. analyze real-world problems in preparation for program design and implementation
 3. manage activities that are strongly computer dependent
 4. 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. teach about computers at college or high school level
 6. advance the fundamental theory of digital information processors
 7. increase awareness of information assurance education and issues
-

Bachelor of Arts–Computer Science

Liberal Studies: As outlined in Liberal Studies section with the following specifications:		50
Mathematics: MATH 123 (1)		
Liberal Studies Electives: 4cr, MATH 216 (1), no courses with COSC prefix		
Major:		36
Required Courses:		
COSC 105	Fundamentals of Computer Science	3cr
COSC 110	Problem Solving and Structured Programming	3cr
COSC 210	Object-Oriented and GUI Programming	3cr
COSC 220	Applied Computer Programming	4cr
COSC 300	Assembly Language Programming	3cr
COSC 310	Data Structures and Algorithms	3cr
COSC 341	Introduction to Database Management Systems	3cr
COSC 380	Seminar on the Computer Profession	1cr
COSC 480	Seminar on Technical Topics	1cr
Controlled Electives: 6cr from the following: (2)		
COSC 250	Introduction to Numerical Methods	3cr
COSC 304	Interactive Internet Programming with Java	3cr
COSC 316	Host Computer Security (3)	3cr
COSC 319	Software Engineering Concepts	3cr
COSC 320	Software Engineering Practice	3cr
COSC 344	Productivity Tools and Fourth Generation Language	3cr
COSC 345	Data Communications	3cr
COSC/IFMG 354	Testing and Controlling LANs	3cr
COSC 355	Computer Graphics	3cr
COSC 356	Network Security	3cr
COSC 360	IBM Job Control Language	1cr
COSC 362	Unix Systems	3cr
COSC 481	Special Topics in Computer Science (only sections approved for majors)	1-4cr
COSC 482	Independent Study	1-4cr
COSC 493	Internship in Computer Science (4)	12cr
IFMG 455	Data Warehousing and Mining	3cr
Upper-level Electives by Categories: (5)		6cr
<i>Computer Architecture:</i> COSC 410		
<i>Theory of Languages:</i> COSC 419 , 420 , 424 , 460		
<i>Systems Programming:</i> COSC 430 , 432		
<i>Numerical Methods:</i> COSC 427 , 450 , 451		
<i>Artificial Intelligence:</i> COSC 405		
<i>Database Management:</i> COSC 415		
Other Requirements:		6-12
Additional Writing:		
ENGL 322	Technical Writing	3cr
Foreign Language Intermediate Level		0-6cr
Additional Mathematics:		
MATH 219	Discrete Mathematics	3cr (1)
Free Electives:		22-28
Total Degree Requirements:		120
(1) MATH 123 can be substituted by taking both MATH 121 and 122 . MATH 216 can be substituted by taking both MATH 214 and 417 or both MATH 217 and 417 .		

- (2) Select at least 6cr from the list of controlled electives. Note: Only 4cr of [COSC 493](#) may be counted toward these 6cr.
- (3) [COSC 316](#) cannot be counted for major credit if a student does an Information Assurance minor.
- (4) [COSC 493](#) may be selected in either the second semester of the junior year or the first semester of the senior year. If [COSC 493](#) is selected and approved, [COSC 380](#) should be taken in the immediately preceding semester.
- (5) Select at least two additional courses, from at least two different categories, from the list of upper-level electives.

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Bachelor of Science–Computer Science/Applied Computer Science Track

Liberal Studies: As outlined in Liberal Studies section with the following specifications:		50
Mathematics: MATH 123 (1)		
Liberal Studies Electives: 4cr, MATH 216 (1), no courses with COSC prefix		
Major:		39
Required Courses:		
COSC 105	Fundamentals of Computer Science	3cr
COSC 110	Problem Solving and Structured Programming	3cr
COSC 210	Object-Oriented and GUI Programming	3cr
COSC 220	Applied Computer Programming	4cr
COSC 300	Assembly Language Programming	3cr
COSC 310	Data Structures and Algorithms	3cr
COSC 319	Software Engineering Concepts	3cr
COSC 341	Introduction to Database Management Systems	3cr
COSC 380	Seminar on the Computer Profession	1cr
COSC 480	Seminar on Technical Topics	1cr
One of the following two courses: (2)		
COSC 304	Interactive Internet Programming with Java	3cr
COSC 344	Productivity Tools and Fourth Generation Language	3cr
One of the following two courses: (3)		
COSC 320	Software Engineering Practice	3cr
COSC 493	Internship in Computer Science (4)	12cr
Controlled Electives: 3cr from the following: (5)		
COSC 250	Introduction to Numerical Methods	3cr
COSC 316	Host Computer Security (6)	3cr
COSC 345	Data Communications	3cr
COSC/IFMG 354	Testing and Controlling LANs	3cr
COSC 355	Computer Graphics	3cr
COSC 356	Network Security	3cr
COSC 360	IBM Job Control Language	1cr
COSC 362	Unix Systems	3cr
COSC 481	Special Topics in Computer Science (only sections approved for majors)	1-4cr
COSC 482	Independent Study	1-4cr
IFMG 455	Data Warehousing and Mining	3cr
Upper-level Electives by Categories: 3cr from the following: (7)		3cr
<i>Artificial Intelligence:</i> COSC 405		
<i>Computer Architecture:</i> COSC 410		
<i>Database Management:</i> COSC 415		
<i>Numerical Methods:</i> COSC 427, 450, 451		
<i>Systems Programming:</i> COSC 430, 432		
<i>Theory of Languages:</i> COSC 419, 420, 424, 460		
Other Requirements:		6-12

Additional Writing:		
ENGL 322	Technical Writing	3cr
Foreign Language Intermediate Level		0-6cr
Additional Mathematics:		
MATH 219	Discrete Mathematics (1)	3cr
Minor: Complete a minor from one of the following areas:		7-18
Information Assurance		18cr
Any department in the College of Natural Sciences and Mathematics		7-18cr
Designated Business courses		18cr
Designated Economics courses		15cr
Designated Geography courses		15cr
Designated Communications Media courses		18cr
Free Electives:		1-18
Total Degree Requirements:		120
(1) MATH 123 can be substituted by taking both MATH 121 and 122 . MATH 216 can be substituted by taking both MATH 214 and 417 or both MATH 217 and 417 .		
(2) Credit for both COSC 304 and 344 may be counted toward the degree, but only one will be counted toward the major requirements.		
(3) Credit for both COSC 320 and 493 may be counted toward the degree, but only one will be counted toward the major requirements.		
(4) COSC 493 may be selected in either the second semester of the junior year or the first semester of the senior year. If COSC 493 is selected and approved, COSC 380 may be taken in the immediately preceding semester.		
(5) Select at least 3cr from the list of controlled electives and/or the list of upper-level electives.		
(6) COSC 316 cannot be counted for major credit if a student does an Information Assurance minor.		
(7) Select at least one additional course from list of upper-level electives.		

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Bachelor of Science–Computer Science/Languages and Systems Track

Liberal Studies: As outlined in Liberal Studies section with the following specifications:		50
Mathematics: MATH 123 (1)		
Liberal Studies Electives: 4cr, MATH 124 , no courses with COSC prefix		
Major:		42
Required Courses:		
COSC 105	Fundamentals of Computer Science	3cr
COSC 110	Problem Solving and Structured Programming	3cr
COSC 210	Object-Oriented and GUI Programming	3cr
COSC 220	Applied Computer Programming	4cr
COSC 300	Assembly Language Programming	3cr
COSC 310	Data Structures and Algorithms	3cr
COSC 319	Software Engineering Concepts	3cr
COSC 341	Introduction to Database Management Systems	3cr
COSC 380	Seminar on the Computer Profession	1cr
COSC 480	Seminar on Technical Topics	1cr
9cr from the following upper-level electives:		
COSC 405	Artificial Intelligence	3cr
COSC 410	Processor Architecture and Microprogramming	3cr
COSC 420	Modern Programming Languages	3cr
COSC 424	Compiler Construction	3cr
COSC 432	Introduction to Operating Systems	3cr

COSC 460	Theory of Computation	3cr
Controlled Electives: 6cr from the following: (2)		
COSC 250	Introduction to Numerical Methods	3cr
COSC 304	Interactive Internet Programming with Java (3)	3cr
COSC 316	Host Computer Security (4)	3cr
COSC 320	Software Engineering Practice (5)	3cr
COSC 344	Productivity Tools and Fourth Generation Language (3)	3cr
COSC 345	Data Communications	3cr
COSC/IFMG 354	Testing and Controlling LANs	3cr
COSC 355	Computer Graphics	3cr
COSC 356	Network Security	3cr
COSC 360	IBM Job Control Language	1cr
COSC 362	Unix Systems	3cr
COSC 415	Internet Architecture and Programming	3cr
COSC 419	Software Development with Ada	3cr
COSC 427	Introduction to Cryptography	3cr
COSC 430	Introduction to Systems Programming	3cr
COSC 450	Applied Numerical Methods	3cr
COSC 451	Numerical Methods for Supercomputers	3cr
COSC 481	Special Topics in Computer Science (as approved for majors)	1-4cr
COSC 482	Independent Study	1-4cr
COSC 493	Internship in Computer Science (5, 6)	12cr
IFMG 455	Data Warehousing and Mining	3cr
Other Requirements:		13-19
Additional Writing:		
ENGL 322	Technical Writing I	3cr
Foreign Language Intermediate Level		0-6cr
Mathematics: A minor in mathematics including the following: (7)		10cr
MATH 123	Calculus I for Physics, Chemistry, and Mathematics (MATH 121 and 122 may be substituted)	
MATH 124	Calculus II for Physics, Chemistry, and Mathematics	
MATH 171	Introduction to Linear Algebra	
MATH 216	Probability and Statistics for Natural Sciences	
MATH 219	Discrete Mathematics	
Free Electives:		9-15
Total Degree Requirements:		120
<p>(1) MATH 123 can be substituted by taking both MATH 121 and 122.</p> <p>(2) Select at least 6cr from the list of controlled electives. Note: Only 4cr of COSC 493 may be counted toward these 6cr.</p> <p>(3) Credit for both COSC 304 and 344 may be counted toward the degree, but only one will be counted toward the major requirements.</p> <p>(4) COSC 316 cannot be counted for major credit if a student does an Information Assurance minor.</p> <p>(5) Credit for both COSC 320 and 493 may be counted toward the degree, but only one will be counted toward the major requirements.</p> <p>(6) COSC 493 may be selected in either the second semester of the junior year or the first semester of the senior year. If COSC 493 is selected and approved, COSC 380 may be taken in the immediately preceding semester.</p> <p>(7) In addition to MATH 171, 216 and 219, MATH 123 and 124 (taken as Liberal Studies requirement) are also counted towards the minor.</p>		

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Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 123 (2) Social Science: CRIM 101 (1) Liberal Studies Electives: 4cr, MATH 216 (2), no courses with COSC prefix		50
Major:		42
Required Courses:		
COSC 105	Fundamentals of Computer Science	3cr
COSC 110	Problem Solving and Structured Programming	3cr
COSC 210	Object-Oriented and GUI Programming	3cr
COSC 220	Applied Computer Programming	4cr
COSC 300	Assembly Language Programming	3cr
COSC 310	Data Structures and Algorithms	3cr
COSC 319	Software Engineering Concepts	3cr
COSC 341	Introduction to Database Management Systems	3cr
COSC 380	Seminar on the Computer Profession	1cr
COSC 480	Seminar on Technical Topics	1cr
Information Assurance Required Courses:		
COSC 316	Host Computer Security	3cr
COSC 356	Network Security	3cr
One of the following two courses:		
COSC 320	Software Engineering Practice	3cr
COSC 493	Internship (Information Assurance) (3)	12cr
Controlled Electives: 3cr from the following:		
COSC 345	Data Communications	3cr
COSC/IFMG 354	Testing and Controlling LANs	3cr
COSC 362	Unix Systems	3cr
COSC 481	Special Topics in Computer Science (as approved for majors in this track)	3cr
IFMG 382	IT Audit and Control	3cr
Upper Level Electives: 3cr from the following:		
COSC 415	Internet Architecture and Programming	3cr
COSC 427	Introduction to Cryptography	3cr
COSC 432	Operating Systems	3cr
COSC 482	Independent Study	3cr
COSC 400	-level course with department approval	3cr
Minor in Criminology (1)		15
Other Requirements:		6-12
Additional Writing:		
ENGL 322	Technical Writing I	3cr
Foreign Language Intermediate Level		0-6cr
Additional Mathematics:		
MATH 219	Discrete Mathematics (2)	3cr
Free Electives:		1-7
Total Degree Requirements:		120
<p>(1) CRIM 101 (taken as part of the social science requirement) is counted as part of the 18cr Criminology minor. 15 additional cr of CRIM are required.</p> <p>(2) MATH 123 can be substituted by taking both MATH 121 and 122. MATH 216 can be substituted by taking both MATH 214 and 417 or both MATH 217 and 417.</p> <p>(3) Only 4cr of COSC 493 may be counted towards the major. COSC 493 may be selected in either the second semester of the junior year or the first semester of the senior year. If COSC 493 is selected and</p>		

approved, [COSC 380](#) may be taken in the immediately preceding semester.

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Minor–Computer Science

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Required Courses:

COSC electives (1, 2, 3)	15cr
<p>(1) This minor consists of 15cr of COSC electives. At least 9 of the 15cr must be COSC courses numbered higher than 200.</p> <p>(2) COSC 101 is an appropriate entry course for minors or for students who wish to take only one course. However, COSC 101 cannot be counted as part of a Computer Science minor by Management Information Systems majors.</p> <p>(3) See Computer Science minor advisor for suggestions.</p>	

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Minor–Information Assurance (1)

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Required Courses:

COSC 110	Problem Solving and Structured Programming (3)	3cr
COSC 316	Host Computer Security	3cr
COSC 352	LAN Design and Installation	3cr
CRIM 101 <i>or</i> CRIM 102	Crime and Justice Systems (2) <i>or</i> Survey of Criminology (2)	3cr
CRIM 321	Cybersecurity and Loss Prevention	3cr
CRIM 323	Cybersecurity and the Law	3cr
<p>(1) Computer Science/Information Assurance Track majors are not eligible to take this minor; instead, they must take a Criminology minor.</p> <p>(2) Criminology majors cannot count CRIM 101 or 102; instead, they must take one additional course from the following: COSC 341, 356, 362, 427, 432, 482, IFMG 382.</p> <p>(3) Computer Science majors cannot count COSC 110; instead, they must take one additional course from the following: CRIM 300, 355, 400, 401, 481, 482.</p>		

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Department of Geoscience

Chairperson: Steven A. Hovan
Faculty: Cercone, Coles, Lewis, Poage, Richardson, Taylor
Professors emeriti: Clark, Hall, Park, Sutton

Website: www.iup.edu/geoscience

Bachelor of Science–Geology

- [Geology Track](#)
- [Environmental Track](#)

Bachelor of Science in Education

- [Earth and Space Science](#)
- [Environmental Track](#)

[Minor–Geology](#)

Geology is a far-ranging science and encompasses various aspects of the Earth system, including the oceans, the atmosphere, and the solid Earth. Professional geologists are thus engaged in a wide range of activities, depending upon their interests. The problems with which geologists are faced include the evolution of life, the origin of volcanic activity, the assessment of volcanic and earthquake hazards, the evolution of our planetary neighbors, and perhaps most important, the human impact on our environment.

The department offers a B.S. degree with a major in Geology that is divided into two tracks: Geology and Environmental. Either track gives students the necessary foundation to pursue a wide variety of career goals. In addition, we offer degrees in secondary education for those students who are interested in teaching. The degrees and courses in our program emphasize hands-on learning, including outdoor instruction and student-oriented research. In addition to on-campus instruction and class-related field trips, the department offers several regional geology field courses, which take place in Newfoundland, the Yellowstone region, the Bahamas, and the American Southwest.

The B.S. degree with a major in Geology/Geology Track is designed for students who are interested in pursuing any of the various subdisciplines in Geology, including Oceanography/Marine Geology, Climate Change, Volcanology, Paleontology, Meteorology, and Geophysics. There is also considerable overlap between geology and astronomy; it is primarily geologists who explore the evolution of other planetary bodies, such as the Moon, Mars, and Venus. Our curriculum reflects various interdisciplinary links and provides the foundation needed to pursue a wide variety of career goals. Career options include teaching, graduate school/research, and employment as a professional geologist (associated with a private business or an environmental firm or as a consultant for a federal or state agency).

The B.S. degree with a major in Geology/Environmental Track is designed for students who wish to pursue a career in the environmental field. In spite of our brief residence time, our presence has had a significant, and in some cases negative, impact upon our environment. Geologists play a key role in dealing with environmental issues, and our Environmental Track prepares students to address various environmental problems. Graduates from this track will be prepared for direct entry into jobs with federal or state agencies and private environmental consulting firms, as well as postgraduate studies.

Minor in Geology

The Minor in Geology is designed for students who desire some background in Geology, in conjunction with a degree in business or one of the social or physical sciences. The department also serves public education by preparing qualified and certified teachers in the field of Earth and Space Sciences and General Science Education.

The minor in Geology consists of 17 credits. Required are [GEOS 121-122](#) and [GEOS 131-132](#). Three upper-level (300 or higher) courses in geology (total 9cr) make up the remaining requirements for the minor.

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Bachelor of Science–Geology/Geology Track

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 121 or 123 Natural Science: CHEM 111-112 or 113-114 Liberal Studies Electives: 4cr, MATH 122 or 124 , no courses with GEOS prefix			50
Major:			29
Geoscience Core:			
GEOS 121	Physical Geology	3cr	
GEOS 122	Physical Geology Laboratory	1cr	
GEOS 131	Historical Geology	3cr	
GEOS 132	Historical Geology Laboratory	1cr	
GEOS 220	Mineralogy	3cr	
GEOS 320	Igneous and Metamorphic Petrology	3cr	
GEOS 325	Structural Geology	3cr	
GEOS 326	Field Geology	3cr	
GEOS 380	Research Methods in the Geosciences	2cr	
GEOS 411	Sedimentary Petrology	3cr	
GEOS 412	Stratigraphy	3cr	
GEOS 480	Geoscience Seminar	1cr	
Geology Track:			23-24
GEOS 330	Paleontology	3cr	
GEOS 362	Plate Tectonics	3cr	
PHYS 111	Physics I Lecture	3cr	
PHYS 121	Physics I Laboratory	1cr	
PHYS 112	Physics II Lecture	3cr	
PHYS 122	Physics II Laboratory	1cr	
Controlled Electives: Select three courses from the following: GEOG 316 , MATH 216 , GEOS courses 300 or above (1)			9-10cr
Other Requirements:			0-6
Foreign Language Intermediate Level (2)		0-6cr	
Free Electives:			11-18
Total Degree Requirements:			120
(1) Up to 3cr of a summer field camp, internship, or independent study, all of which must be approved by the department, may be applied to controlled electives.			
(2) 6cr of computer language may substitute for the foreign language requirement: COSC 110 and 310 (recommended), other higher-level COSC courses with department permission in consultation with the Computer Science Department.			

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Bachelor of Science–Geology/Environmental Track

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 121 or 123 Natural Science: CHEM 111-112 or CHEM 113-114 Liberal Studies Electives: 7cr, MATH 122 or 124 , PHYS 111 , no courses with GEOS prefix			53
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Major:		29
Geoscience Core:		
GEOS 121	Physical Geology	3cr
GEOS 122	Physical Geology Laboratory	1cr
GEOS 131	Historical Geology	3cr
GEOS 132	Historical Geology Laboratory	1cr
GEOS 220	Mineralogy	3cr
GEOS 320	Igneous and Metamorphic Petrology	3cr
GEOS 325	Structural Geology	3cr
GEOS 326	Field Geology	3cr
GEOS 380	Research Methods in the Geosciences	2cr
GEOS 411	Sedimentary Petrology	3cr
GEOS 412 or GEOS 327	Stratigraphy or Geomorphology	3cr
GEOS 480	Geoscience Seminar	1cr
Environmental Track:		22-23
BIOL 111	Principles of Biology I	4cr
GEOS 310	Environmental Geology	3cr
GEOS 331	Hydrogeology	3cr
GEOS 332	Geochemistry	3cr
PHYS 121	Physics I Lab	1cr
Controlled Electives: (1, 2)		8-9cr
Select three courses from the following: (3) <i>Biology Electives:</i> BIOL 112 , 250 , 321 , 322 , 362 <i>Chemistry Electives:</i> CHEM 231 , 232 , 322 , 323 , 341 <i>Allied Fields:</i> GEOS courses 300 or above (4), COSC 250 , GEOG 316 , 415 , MATH 216 , PHYS 112-122 , SAFE 101		
Other Requirements:		0-6
Foreign Language Intermediate Level (5)		0-6cr
Free Electives:		9-16
Total Degree Requirements:		120
(1) Some courses have prerequisites that may be taken as free electives. (2) Students who plan to pursue graduate-level studies are encouraged to take PHYS 112-122 . (3) Select one each from the Biology and Chemistry electives lists and a third from any of the three elective lists. (4) Up to 3cr of a summer field camp, internship, or independent study, all of which must be approved by the department, may be applied to controlled electives. (5) 6cr of computer language may substitute for the foreign language requirement: COSC 110 and 310 (recommended) or other higher-level COSC courses with department permission in consultation with the Computer Science Department.		

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Minor–Geology

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Required Courses:		
GEOS 121	Physical Geology	3cr
GEOS 122	Physical Geology Laboratory	1cr
GEOS 131	Historical Geology	3cr
GEOS 132	Historical Geology Laboratory	1cr
Three upper-level (300 or higher) courses in Geology		9cr

Bachelor of Science in Education–Earth and Space Science (*)

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 121 Natural Science: CHEM 111-112 Social Science: PSYC 101 Liberal Studies Electives: 6cr, MATH 217 , PHYS 111 , no courses with GEOS prefix		52
College:		29
Preprofessional Education Sequence:		
COMM 103	Digital Instructional Technology	3cr
EDSP 102	Educational Psychology	3cr
Professional Education Sequence:		
EDEX 301	Education of Students with Disabilities in Inclusive Secondary Settings	2cr
EDSP 477	Assessment of Student Learning: Design and Interpretation of Educational Measures	3cr
EDUC 242	Pre-student Teaching Clinical Experience I	1cr
EDUC 342	Pre-student Teaching Clinical Experience II	1cr
EDUC 441	Student Teaching	12cr
EDUC 442	School Law	1cr
EDUC 451	Teaching Science in the Secondary School	3cr
Major:		39
Required Courses:		
BIOL 103	General Biology I	4cr
GEOS 121	Physical Geology	3cr
GEOS 122	Physical Geology Laboratory	1cr
GEOS 131	Historical Geology	3cr
GEOS 132	Historical Geology Laboratory	1cr
GEOS 341	Solar System	3cr
GEOS 342	Stellar Astronomy	3cr
GEOS 350	Operation of the Planetarium	1cr
GEOS 361	Physical Oceanography	3cr
GEOS 371	Meteorology I	3cr
PHYS 112	Physics II Lecture	3cr
PHYS 121	Physics I Lab	1cr
PHYS 122	Physics II Lab	1cr
Controlled Electives:		
Geology electives (200 level or higher)		9cr
Total Degree Requirements:		120
(*) See requirements leading to teacher certification, titled " 3-Step Process for Teacher Education ," in the College of Education and Educational Technology section of this catalog.		

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Bachelor of Science in Education–General Science Education (*)

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 121 (1) Natural Science: CHEM 111-112 Social Science: PSYC 101 Liberal Studies Electives: 6cr, MATH 217 , PHYS 111 , no courses with prefix of chosen track in major		52
College:		29
Preprofessional Education Sequence:		

COMM 103	Digital Instructional Technology	3cr
EDSP 102	Educational Psychology	3cr
Professional Education Sequence:		
EDEX 301	Education of Students with Disabilities in Inclusive Secondary Settings	2cr
EDSP 477	Assessment of Student Learning: Design and Interpretation of Educational Measures	3cr
EDUC 242	Pre-student Teaching Clinical Experience I	1cr
EDUC 342	Pre-student Teaching Clinical Experience II	1cr
EDUC 441	Student Teaching	12cr
EDUC 442	School Law	1cr
EDUC 451	Teaching Science in the Secondary School	3cr
Major:		36-38
Required Courses:		
BIOL 103	General Biology I	4cr
BIOL 104	General Biology II	4cr
GEOS 111	Earth Science for Educators I	3cr
GEOS 112	Earth Science for Educators I Lab	1cr
GEOS 113	Earth Science for Educators II	3cr
GEOS 114	Earth Science for Educators II Lab	1cr
PHYS 112	Physics II Lecture	3cr
PHYS 121	Physics I Lab	1cr
PHYS 122	Physics II Lab	1cr
Controlled Electives:		15-17cr
<i>Biology track:</i> BIOL 210 , 220 , 250 , 272 , 480 , BIOL elective		
<i>Chemistry track:</i> CHEM 231 , 321 , 351 , 232 or 340 or 341		
<i>Geoscience track:</i> GEOS 121 , 122 , 131 , 132 , 341 or 342 , 361 , 371		
<i>Physics track:</i> PHYS 222 , 231 , 242 , 331 , 350 (1)		
Free Electives:		1-3
Total Degree Requirements:		120
<p>(*) See requirements leading to teacher certification, titled "3-Step Process for Teacher Education," in the College of Education and Educational Technology section of this catalog.</p> <p>(1) Note: If Physics track is elected, MATH 123 and 124 are required in place of MATH 121 resulting in additional cr.</p> <p>(#) See advisory paragraph "Timely Completion of Degree Requirements" in the section on Requirements for Graduation.</p>		

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Department of Mathematics

Chairperson: Gary S. Stoudt

Faculty: Adkins, Alarcon, Baker, Balenovich, Burch, Buriok, Burkett, Colen, Donley, Dubovsky, Early, Feldman, Frank, Kuo, Lattanzio, Look, Maier, Morgan, Myers, Navaratna, Ray, Sharp, Short, Steelman, Stempien, Walker, Wisloski, Zhang

Professors emeriti: Angelo, Arms, Broughton, Davis, Duncan, Gibson, Hartman, Massey, D. McBride, R. McBride, Mitchell, Mueller, Oakes, J. Reber, Rettig, Shawer, E. Smith, W. Smith, Stilwell, Willison, Woodard

Website: www.iup.edu/math

Bachelor of Science

- [Applied Mathematics](#)
- [Mathematics](#)

[Bachelor of Science in Education–Mathematics Education](#)

[Bachelor of Arts–Economics/Mathematics](#)

Minors

- [Applied Statistics](#)
 - [Mathematics](#)
-

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 degree with a major in Mathematics, the Bachelor of Science degree with a major in Applied Mathematics, the Bachelor of Arts degree with a major in Economics/Mathematics, and the Bachelor of Science in Education degree with a major in Mathematics Education. The first two degree programs are offered within the College of Natural Sciences and Mathematics, the third is shared with the Economics Department, and the fourth is in conjunction with the College of Education and Educational Technology. The department also offers a minor in Mathematics, a minor in Applied Statistics, and a concentration in Mathematics for Elementary Education majors.

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. 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 B.A. degree with a major in Economics/Mathematics 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.Ed. with a major in Mathematics Education prepares the student for teaching mathematics in Grades 7-12. 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 credits in mathematics. The program of courses for this concentration is as follows: in addition to [MATH 151](#) and [152](#), select 9 credits from the following courses: [MATH 317](#), [420](#), [456](#), [457](#), [458](#), [459](#), [471](#), or [481](#).

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Minor in Mathematics

The minor consists of a minimum of 17 credits 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.

Minor in Applied Statistics

The minor in Applied Statistics, consisting of 16 credits, 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 with majors in business, Safety Sciences, or Computer Science.

A cumulative GPA of at least 2.0 in [MATH](#) courses is required for a minor in Mathematics or Applied Statistics. The 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 Mathematics Department.

Bachelor of Science–Applied Mathematics

Liberal Studies: As outlined in Liberal Studies section with the following specifications:		54
Mathematics: MATH 123		
Liberal Studies Electives: 9cr; no courses with MATH prefix		
Major:		36-37
Required Courses:		
MATH 124	Calculus II for Physics, Chemistry, and Mathematics	4cr
MATH 171	Introduction to Linear Algebra	3cr
MATH 216	Probability and Statistics for Natural Sciences	4cr
MATH 241	Differential Equations	3cr
MATH 271	Introduction to Mathematical Proofs I	3cr
MATH 272	Introduction to Mathematical Proofs II	3cr
MATH 480	Senior Seminar	1cr
Controlled Electives: (1)		
Two courses from the following: MATH 371 , 421 , 422 , 423 , 427 , 476 , 477		6cr
One of the following two-course sequences: MATH 342/447 or COSC 451/MATH 451 ; MATH 363-/364 ; MATH 445/446		6-7cr
A minimum of 3 additional cr from the list of controlled electives above or the following: MATH 353 , 465 , 481		3cr
Other Requirements:		6-12
Computer Science:		
COSC 110	Problem Solving and Structured Programming	3cr
COSC 250	Introduction to Numerical Methods	3cr
Foreign Language Intermediate Level (2)		0-6cr
Free Electives:		17-24
Total Degree Requirements:		120
(1) A student may select courses to fulfill requirements for specialized track.		
a. <i>Actuarial/Statistics:</i> MATH 363 , 364 , 366 , 371 , 421 , 446 , 465		
b. <i>Math Analyst/Engineering:</i> MATH 342/447 , COSC 451 , MATH 371 , 423 , 451		

c. *Operations Research*: [MATH 371](#), [421](#), [445/446](#), [447](#)

(2) Intermediate-level Foreign Language may be included in Liberal Studies electives.

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Bachelor of Science–Mathematics

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 123 Liberal Studies Electives: 9cr; no courses with MATH prefix		54
Major:		36-37
Required Courses:		
MATH 124	Calculus II for Physics, Chemistry, and Mathematics	4cr
MATH 171	Introduction to Linear Algebra	3cr
MATH 216	Probability and Statistics for Natural Sciences	4cr
MATH 241	Differential Equations	3cr
MATH 271	Introduction to Mathematical Proofs I	3cr
MATH 272	Introduction to Mathematical Proofs II	3cr
MATH 480	Senior Seminar	1cr
Controlled Electives:		
Four courses from the following: MATH 371 , 421 , 422 , 423 , 424 , 427 , 476 , 477		12cr
A minimum of 3 additional cr from the list of controlled electives above or the following: MATH 342 , 350 , 353 , 355 , 363 , 364 , 425 , 445 , 446 , 447 , 465 , 481		3-4cr
Other Requirements:		3-9
Computer Science:		
COSC 110	Problem Solving and Structured Programming	3cr
Foreign Language Intermediate Level (1)		0-6cr
Free Electives:		20-27
Total Degree Requirements:		120
(1) Intermediate-level Foreign Language may be included in Liberal Studies electives.		

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Bachelor of Arts–Economics/Mathematics

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 123 Social Science: ECON 121 Liberal Studies Electives: 9cr; no courses with ECON or MATH prefix		54
Major:		46-48
Core:		
ECON 122	Principles of Microeconomics	3cr
ECON 421	Macroeconomics Analysis	3cr
ECON 422	Microeconomics Analysis	3cr
MATH 124	Calculus II for Physics, Chemistry, and Mathematics	4cr
MATH 171	Introduction to Linear Algebra	3cr
MATH 216 or ECON 355	Probability and Statistics for Natural Sciences <i>or</i> Statistics for Economists	3-4cr
Economics Electives: (1, 2)		12cr
Students are especially encouraged to take ECON 334 and 356 , but any course except ECON 101 may be used.		
Mathematics Electives:		15-16cr

At least one of the following two-semester sequences: MATH 241 and 371 , MATH 363 and 364 , or MATH 445 and 446	
Three additional courses either from the above or from the following: MATH 271 , 272 , 342 , 417 or 418 , 421 , 422 , 423 , 425 , 427 , 451 , 465 , 476 , 477	
Other Requirements: College: Foreign Language Intermediate Level (3)	0-6
Free Electives:	12-20
Total Degree Requirements:	120
(1) No more than 6cr of internship credit may be applied toward major. (2) No more than one ECON Controlled Elective may be a 200-level course. (3) Intermediate-level Foreign Language may be included in Liberal Studies electives.	

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Bachelor of Science in Education–Mathematics Education (*)

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 123 Social Science: PSYC 101 Liberal Studies Electives: 6cr, no courses with MATH prefix		51
College:		26
Professional Education Sequence:		
EDEX 301	Education of Students with Disabilities in Inclusive Secondary Settings	2cr
EDSP 102	Educational Psychology	3cr
EDSP 477	Assessment of Student Learning: Design and Interpretation of Educational Measures	3cr
EDUC 242	Pre-student Teaching Clinical Experience I	1cr
EDUC 342	Pre-student Teaching Clinical Experience II	1cr
EDUC 441	Student Teaching	12cr
EDUC 442	School Law	1cr
EDUC 456	Teaching Math in the Secondary Schools	3cr
Major:		35
Required Courses:		
MATH 124	Calculus II for Physics, Chemistry, and Mathematics	4cr
MATH 171	Introduction to Linear Algebra	3cr
MATH 216	Probability and Statistics for Natural Sciences	4cr
MATH 271	Introduction to Mathematical Proofs I	3cr
MATH 272	Introduction to Mathematical Proofs II	3cr
MATH 340	Principles of Secondary School Mathematics	3cr
MATH 350	History of Mathematics	3cr
MATH 353	Theory of Numbers	3cr
MATH 355	Foundations of Geometry I	3cr
MATH 430	Seminar in Teaching Secondary School Mathematics	3cr
MATH 460	Technology in Mathematics Instruction	3cr
Other Requirements:		3
COSC 110	Problem Solving and Structured Programming	3cr
Free Electives:		5

Total Degree Requirements:	120
(*) See requirements leading to teacher certification, titled " 3-Step Process for Teacher Education ," in the College of Education and Educational Technology section of this catalog.	

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Minor–Applied Statistics

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At least 16cr selected as follows:	
a) Introductory calculus course: MATH 115 or 121 or 123	4cr
b) Introductory statistics course: MATH 214 or 216 or 217	3-4cr
c) MATH 417	3cr
d) MATH 418	3cr
The remaining hours may be chosen from the following:	
a) A second calculus course: MATH 122 or 124	4cr
b) MATH 171	3cr
c) QBUS 215	3cr
d) Any course for mathematics majors approved by the Applied Statistics Advisor.	

Minor–Mathematics

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Required Courses:	
MATH 121 and 122 <i>or</i> MATH 123 and 124	8cr
Controlled Electives:	
Other courses for math majors, MATH 219 may be included (1)	9cr
(1) The following courses are excluded: MATH 100 , 101 , 105 , 110 , 115 , 117 , 214 , 217 , 417 , 418 , and courses for the Elementary Education concentration in Mathematics.	

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Natural Science

Coordinator: Andrew C. Browe

Website: www.iup.edu/preprofessional

Bachelor of Science–Natural Science

Bachelor of Science–Natural Science Tracks

- [Pre-Chiropractic Track](#)
 - [Pre-Dentistry Track](#)
 - [Pre-Engineering Track](#)
 - [Pre-Optometry Track](#)
 - [Pre-Pharmacy Track](#)
 - [Pre-Physical Therapy Track](#)
 - [Pre-Podiatry Track](#)
 - [Science for Disaster Response Track](#)
-

The program leading to the B.S. degree with a major in Natural Science is designed to prepare students for admission to professional schools—chiropractic, dentistry, optometry, physical therapy, pharmacy, and podiatry. Another separate track prepares students for further study in engineering. The B.S. degree with a major in Natural Science will be earned by students who transfer to professional schools which 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 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 health-oriented businesses or industries may wish to obtain a foundation in the Natural Sciences while using their free electives to pursue additional work in areas such as Molecular Biology, Biochemistry, Psychology, Economics, Pre-Law, or Athletic Training. The B.S. degree with a major 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, contact the coordinator of the Natural Science Program.

NOTE: Agreements for two new tracks have been set up and will be available pending approval.

- Bachelor of Science–Natural Science/Pre-Audiology Track
 - Bachelor of Science–Natural Science/Pre-Physician Assistant Track
-

Bachelor of Science–Natural Science

<p>Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 121 Natural Science: CHEM 111-112 Social Science: PSYC 101 Synthesis: not required for three-year students who transfer to a professional school with an articulation agreement Writing Intensive: writing-intensive course only required for three-year students who transfer to a professional school with an articulation agreement Liberal Studies Electives: BTED/COSC/IFMG 101; no courses with SCI prefix</p>	49
<p>Major:</p>	41

Required Courses:			
Biology:			
BIOL 111	Principles of Biology I		4cr
BIOL 112	Principles of Biology II		4cr
BIOL 150	Human Anatomy		3cr
BIOL 151	Human Physiology		4cr
BIOL 241	General Microbiology		3cr
BIOL 263	Genetics		3cr
Chemistry:			
CHEM 231	Organic Chemistry I		4cr
CHEM 232 <i>or</i> CHEM 351	Organic Chemistry II <i>or</i> Biochemistry		4cr
Physics:			
PHYS 111	Physics I Lecture		3cr
PHYS 112	Physics II Lecture		3cr
PHYS 121	Physics I Lab		1cr
PHYS 122	Physics II Lab		1cr
Mathematics:			
MATH 216	Probability and Statistics for Natural Sciences		4cr
Other Requirements:			0-6
Foreign Language Intermediate Level		0-6cr	
Free Electives:			24-30
Total Degree Requirements:			120

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Bachelor of Science–Natural Science/Pre-Chiropractic Track (*)

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: 4cr, MATH 121 Natural Science: CHEM 111-112 Social Science: PSYC 101 Synthesis: not required for three-year students who transfer to a professional school with an articulation agreement Writing Intensive: writing-intensive course only required for three-year students who transfer to a professional school with an articulation agreement Liberal Studies Electives: COSC 101 , no courses with SCI prefix			49
Major:			41
Required Courses:			
BIOL 111	Principles of Biology I		4cr
BIOL 112	Principles of Biology II		4cr
BIOL 150	Human Anatomy		3cr
BIOL 151	Human Physiology		4cr
BIOL 241	General Microbiology		3cr
BIOL 263	Genetics		3cr
CHEM 231	Organic Chemistry I		4cr
CHEM 232 <i>or</i> CHEM 351	Organic Chemistry II <i>or</i> Biochemistry		4cr
PHYS 111	Physics I Lecture		3cr
PHYS 121	Physics I Lab		1cr
PHYS 112	Physics II Lecture		3cr
PHYS 122	Physics II Lab		1cr
MATH 216	Probability and Statistics for Natural Sciences		4cr

Other Requirements:	0-6
Foreign Language Intermediate Level	
Free Electives:	0-30
Electives to meet minimum of 90 IUP cr and minimum of 24cr in Humanities and Social Sciences for admission to affiliated chiropractic colleges after three years at IUP	
Maximum cr for work at affiliated chiropractic school	30cr
Total Degree Requirements:	120
<p>(*) Accelerated three-year New York Chiropractic College (NYCC) and Logan Chiropractic College (LCC) programs. A maximum of 30cr of work may be transferred after the first year at NYCC or LCC. Upon completion of the first year of studies at NYCC or LCC, a transcript from NYCC or LCC 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.</p> <p>(1) Student is to work with his/her advisor to select appropriate free electives for professional school. Additional courses in Biology and HPED 315 or 345 are recommended.</p>	

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Bachelor of Science–Natural Science/Pre-Dentistry Track (*)

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: 4cr, MATH 121 Natural Science: CHEM 111-112 Social Science: PSYC 101 Synthesis: not required for three-year students who transfer to a professional school with an articulation agreement Writing Intensive: writing-intensive course only required for three-year students who transfer to a professional school with an articulation agreement Liberal Studies Electives: COSC 101 , no courses with SCI prefix	49
Major:	41
Required Courses:	
BIOL 111 Principles of Biology I	4cr
BIOL 112 Principles of Biology II	4cr
BIOL 150 Human Anatomy	3cr
BIOL 151 Human Physiology	4cr
BIOL 241 General Microbiology	3cr
BIOL 263 Genetics	3cr
CHEM 231 Organic Chemistry I	4cr
CHEM 232 <i>or</i> Organic Chemistry II <i>or</i> CHEM 351 Biochemistry	4cr
PHYS 111 Physics I Lecture	3cr
PHYS 121 Physics I Lab	1cr
PHYS 112 Physics II Lecture	3cr
PHYS 122 Physics II Lab	1cr
MATH 216 Probability and Statistics for Natural Sciences	4cr
Other Requirements:	0-6
Foreign Language Intermediate Level	
Free Electives: (1)	0-30
Electives to meet minimum of 90 IUP cr and minimum of 24cr in Humanities and Social Sciences for admission to affiliated dental school after three years at IUP	
Maximum cr for work at affiliated dental school	30cr

Total Degree Requirements:	120
<p>(*) Accelerated three-year Temple University School of Dentistry program. A maximum of 30cr of work may be transferred after the first year at Temple University School of Dentistry. Upon completion of the first year of studies at Temple University School of Dentistry, a transcript from Temple University 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.</p> <p>(1) Student is to work with his/her advisor to select appropriate free electives for professional school. Ceramics and additional courses in Biology are highly recommended.</p>	

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Bachelor of Science–Natural Science/Pre-Engineering Track

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 123 Humanities/Philosophy and Religious Studies: PHIL 222 Natural Science: CHEM 111-112 Social Science: ECON 101 , PLSC 101 or 111 Synthesis: not required for three-year students Writing Intensive: one course required for three-year students Liberal Studies Electives: MATH 124 , no courses with SCI prefix	53	
Major:	33-35	
Required Courses:		
COSC 110	Problem Solving and Structured Programming	3cr
COSC 250	Introduction to Numerical Methods	3cr
MATH 171	Introduction to Linear Algebra	3cr
MATH 241	Differential Equations	3cr
MATH 342	Advanced Mathematics for Applications	4cr
PHYS 131	Physics I-C Lecture	3cr
PHYS 132	Physics II-C Lecture	3cr
PHYS 141	Physics I-C Lab (or PHYS 121 Lab)	1cr
PHYS 142	Physics II-C Lab	1cr
PHYS 331	Modern Physics (2)	3cr
Controlled Electives: One package, depending on program		
<i>Chemical Engineering:</i>		
CHEM 231	Organic Chemistry I	4cr
CHEM 232	Organic Chemistry II	4cr
<i>Civil Engineering:</i>		
MATH 216	Probability and Statistics for Natural Science	4cr
-----	Technical elective	3-4cr
<i>Electrical Engineering:</i>		
MATH 216	Probability and Statistics for Natural Science	4cr
-----	Technical elective	3-4cr
<i>Industrial Engineering:</i>		
MATH 216	Probability and Statistics for Natural Science	4cr
-----	Technical elective	3-4cr
<i>Materials Science and Engineering:</i>		
CHEM 231	Organic Chemistry I	4cr
CHEM 232	Organic Chemistry II	4cr
<i>Mechanical Engineering:</i>		
-----	Technical electives	6-8cr
Other Requirements:	0-6	
Foreign Language Intermediate Level (1)		

Free Electives:	9
Other Requirements:	about 64
Two years at University of Pittsburgh School of Engineering (2, 3)	
(#) Total Degree Requirements:	159-161
<p>(1) Intermediate-level Foreign Language may be included in Liberal Studies electives.</p> <p>(2) A 2.8 cumulative GPA is required for transfer to the University of Pittsburgh.</p> <p>(3) For curriculum information about the cooperative program in engineering with Drexel University, refer to the catalog section for the Physics Department.</p> <p>(#) See advisory paragraph "Timely Completion of Degree Requirements" in the section on Requirements for Graduation.</p>	

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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 111-112 Social Science: ECON 101 , PSYC 101 Synthesis: not required for three-year students who transfer to a professional school with an articulation agreement Writing Intensive: writing-intensive course only required for three-year students who transfer to a professional school with an articulation agreement Liberal Studies Electives: COSC 101 , no courses with SCI prefix	49
Major:	41
Required Courses:	
BIOL 111 Principles of Biology I	4cr
BIOL 112 Principles of Biology II	4cr
BIOL 150 Human Anatomy	3cr
BIOL 151 Human Physiology	4cr
BIOL 241 General Microbiology	3cr
BIOL 263 Genetics	3cr
CHEM 231 Organic Chemistry I	4cr
CHEM 232 <i>or</i> CHEM 351 Organic Chemistry II <i>or</i> Biochemistry	4cr
PHYS 111 Physics I Lecture	3cr
PHYS 121 Physics I Lab	1cr
PHYS 112 Physics II Lecture	3cr
PHYS 122 Physics II Lab	1cr
MATH 216 Probability and Statistics for Natural Sciences	4cr
Other Requirements:	0-6
Foreign Language Intermediate Level	
Free Electives:	0-30
Electives to meet minimum of 90 IUP cr and minimum of 24cr in Humanities and Social Sciences for admission to affiliated optometry school after three years at IUP	
Maximum cr for work at affiliated optometry school	30cr
Total Degree Requirements:	120
(*) Accelerated three-year Pennsylvania College of Optometry (PCO) program. A maximum of 30cr of work may be transferred after the first year at PCO. Upon 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) Student is to work with his/her advisor to select appropriate free electives for professional school. Neurobiology and Optics are highly recommended courses.

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Bachelor of Science–Natural Science/Pre-Pharmacy Track (*)

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 121 Natural Science: CHEM 111-112 Social Sciences: ECON 101 , PSYC 101 Synthesis: not required for three-year students who transfer to a professional school with an articulation agreement Writing Intensive: writing-intensive course only required for three-year students who transfer to a professional school with an articulation agreement Liberal Studies Electives: COSC 101 , no courses with SCI prefix			49
Major:			41
Required Courses:			
BIOL 111	Principles of Biology I		4cr
BIOL 112	Principles of Biology II		4cr
BIOL 150	Human Anatomy		3cr
BIOL 151	Human Physiology		4cr
BIOL 241	General Microbiology		3cr
BIOL 263	Genetics		3cr
CHEM 231	Organic Chemistry I		4cr
CHEM 232 or CHEM 351	Organic Chemistry II <i>or</i> Biochemistry		4cr
PHYS 111	Physics I Lecture		3cr
PHYS 121	Physics I Lab		1cr
PHYS 112	Physics II Lecture		3cr
PHYS 122	Physics II Lab		1cr
MATH 216	Probability and Statistics for Natural Sciences		4cr
Other Requirements:			0-6
Foreign Language Intermediate Level			
Free Electives: (1)			0-30
Electives to meet minimum of 90 IUP cr and minimum of 24cr in Humanities and Social Sciences for admission to affiliated pharmacy school after three years at IUP			
Maximum cr for work at affiliated pharmacy school			30cr
Total Degree Requirements:			120
(*) Accelerated three-year Shenandoah University School of Pharmacy (SUSP) or Lake Erie College of Osteopathic Medicine School of Pharmacy (LECOMP) program. A maximum of 30cr may be transferred after first year at SUSP or LECOMP. Upon completion of the first year of studies at either SUSP or LECOMP, a transcript from SUSP or LECOMP is to be sent by the student to the dean of the College of Natural Sciences and Mathematics at IUP with a note requesting application materials for graduation.			
(1) Student is to work with his/her advisor to select appropriate free electives for professional school. Additional courses in Chemistry and COMM 101 are recommended.			

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Bachelor of Science–Natural Science/Pre-Physical Therapy Track (*)

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 121 Natural Science: CHEM 111-112 Social Sciences: PSYC 101 Synthesis: not required for three-year students who transfer to a professional school with an articulation agreement Writing Intensive: writing-intensive course only required for three-year students who transfer to a professional school with an articulation agreement Liberal Studies Electives: COSC 101 , no courses with SCI prefix		49
Major:		41
Required Courses:		
BIOL 111	Principles of Biology I	4cr
BIOL 112	Principles of Biology II	4cr
BIOL 150	Human Anatomy	3cr
BIOL 151	Human Physiology	4cr
BIOL 241	General Microbiology	3cr
BIOL 263	Genetics	3cr
CHEM 231	Organic Chemistry I	4cr
CHEM 232 <i>or</i> CHEM 351	Organic Chemistry II <i>or</i> Biochemistry	4cr
PHYS 111	Physics I Lecture	3cr
PHYS 121	Physics I Lab	1cr
PHYS 112	Physics II Lecture	3cr
PHYS 122	Physics II Lab	1cr
MATH 216	Probability and Statistics for Natural Sciences	4cr
Other Requirements:		0-6
Foreign Language Intermediate Level		
Free Electives: (1)		0-30
Electives to meet minimum of 90 IUP cr and minimum of 24cr in Humanities and Social Sciences for admission to affiliated physical therapy school after three years at IUP		
Maximum cr for work at affiliated physical therapy school		30cr
Total Degree Requirements:		120
(*) Accelerated three-year Gannon University School of Physical Therapy program. A maximum of 30sh of work may be transferred after the first year at Gannon University School of Physical Therapy. Upon the completion of the first year of studies at Gannon University School of Physical Therapy, a transcript from Gannon University 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) Student is to work with his/her advisor to select appropriate free electives for professional school. Neurobiology, Biomechanics, and Athletic Training are highly recommended.		

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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 111-112 Social Sciences: PSYC 101 Synthesis: not required for three-year students who transfer to a professional school with an articulation agreement		49
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Writing Intensive: writing-intensive course only required for three-year students who transfer to a professional school with an articulation agreement		
Liberal Studies Electives: COSC 101 , no courses with SCI prefix		
Major:		41
Required Courses:		
BIOL 111	Principles of Biology I	4cr
BIOL 112	Principles of Biology II	4cr
BIOL 150	Human Anatomy	3cr
BIOL 151	Human Physiology	4cr
BIOL 241	General Microbiology	3cr
BIOL 263	Genetics	3cr
CHEM 231	Organic Chemistry I	4cr
CHEM 232 <i>or</i> CHEM 351	Organic Chemistry II <i>or</i> Biochemistry	4cr
PHYS 111	Physics I Lecture	3cr
PHYS 121	Physics I Lab	1cr
PHYS 112	Physics II Lecture	3cr
PHYS 122	Physics II Lab	1cr
MATH 216	Probability and Statistics for Natural Sciences	4cr
Other Requirements:		0-6
Foreign Language Intermediate Level		
Free Electives: (1)		0-30
Electives to meet minimum of 90 IUP cr and minimum of 24cr in Humanities and Social Sciences for admission to affiliated podiatry school after three years at IUP		
Maximum cr for work at affiliated podiatry school		30cr
Total Degree Requirements:		120
<p>(*) Accelerated three-year Temple University School of Podiatry program. A maximum of 30sh may be transferred after the first at Temple University School of Podiatry. Upon completion of the first year of studies at Temple University School of Podiatry, a transcript from Temple University is to be sent by the student to the dean of the College of Natural Sciences and Mathematics at IUP with a note requesting application materials for graduation.</p> <p>(1) Student is to work with his/her advisor to select appropriate free electives for professional school. Additional courses in Biology are recommended.</p>		

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Bachelor of Science–Natural Science/Science for Disaster Response Track

This track provides intensive education and training in the principles involved in detecting, identifying, and safe handling of chemical, biological, radiological, or nuclear (CBRN) agents and their precursors as they are related to weapons of mass destruction (WMD). This track responds to the national mandate to improve the educational level of first responders in the WMD community. The intended audience is the National Guard Bureau’s Weapons of Mass Destruction Civil Support Teams (WMD-CST), other United States Government WMD and homeland security response elements, state and local civilian WMD and homeland security response elements, and related emergency planners. Additionally, this track prepares WMD first responders for employment in technical positions related to Homeland Security or graduate studies in CBRN defense.

Requirements for Admission

In addition to meeting admission requirements at IUP, the applicant must have local, state, or federal agency/organization authorization certifying student participation in emergency response teams. The purpose of this requirement is to ensure security because of the sensitive nature of some of the course material.

The applicant also must have sufficient preparation in biology, chemistry, physics, and mathematics. Preparation should include high school biology, chemistry, physics, algebra, geometry, and trigonometry. Additionally, all students must take a placement exam that has been developed by the WMD-faculty for Levels 1, 2, and 3 of the SDR courses. This placement exam is designed to assess the student’s knowledge of the material

in the courses associated with Levels 1, 2, and 3. Each course has questions on the placement exam.. Students must attain a score of 80 percent or higher on the questions associated with a course in order to place out of that course. However, the students will not receive credit for a course they don't have to take. Therefore, they will have to make up the credits by taking another course. The advisors will help the students to select an appropriate course.

Applicants should have prior education and training in domestic preparedness, sample collection and analysis, emergency medicine, and emergency response. Due to the sensitive nature of some of the course material and the need to ensure security, all students who are interested in applying for admission into the B.S.–Natural Science with specialization in SDR must be approved by the director of the WMD Programs at IUP prior to submitting an application. Contact information for the director of the WMD Programs at IUP is on the IUP/WMD website www.wmdrealiti.iup.edu.

Bachelor of Science–Natural Science/Science for Disaster Response Track

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 121 Natural Science: CHEM 111-112 or CHEM 113-114 Social Science: PSYC 101 Liberal Studies Electives: 3cr, PHYS 111 ; no courses with SCI or SDR prefixes			49
Major:			60
Required Courses:			
Biology: (1)			
BIOL 111	Principles of Biology I	4cr	
BIOL 150	Human Anatomy	3cr	
BIOL 151	Human Physiology	4cr	
SDR Core Courses (Biology):			
SDR 111	Basic Biological Laboratory Operations	5cr	
SDR 211	Interaction of CBRN Materials with Biological Systems and PCR Technology	5cr	
SDR 311	Structure of DNA, RNA, and Cell Morphology	5cr	
SDR Core Courses (Chemistry):			
SDR 121	Chemical Recognition and Identification Techniques	5cr	
SDR 221	Chemistry of Precursor Compounds	5cr	
SDR 321	Organic Chemistry of WMD, TICS, and TIMS	5cr	
Physics:			
PHYS 112	Physics II Lecture	3cr	
PHYS 121	Physics I Lab	1cr	
PHYS 122	Physics II Lab	1cr	
PHYS 222	Mechanics I	2cr	
PHYS 331	Modern Physics	3cr	
SDR Core Courses (Physics):			
SDR 131	Principles of Radiation	3cr	
SDR 231	Hazards of Ionizing Radiation	3cr	
SDR 331	Interaction of Ionizing Radiation	3cr	
Other Requirements:			4-10
MATH 122	Calculus II for Natural and Social Sciences	4cr	
Foreign Language Intermediate Level		0-6cr	
Free Electives:			1-7
Suggested:			
BIOL 401	Laboratory Methods in Biology and Biotechnology	3cr	
BIOL 410	Molecular Biology Topics	3cr	
COSC 101	Microbased Computer Literacy	3cr	
MATH 216 <i>or</i>	Probability and Statistics for Natural Sciences <i>or</i>	4cr	

MATH 217	Probability and Statistics	3cr
SDR 486	Selected Topics in SDR	1-6cr
Total Degree Requirements:		120
(1) Students transferring from the SDR track must fulfill all requirements to the transferred Natural Science preprofessional track.		

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Department of Physics

Chairperson: Kenneth E. Hershman

Faculty: Freda, Freeman, Haija, Karimi, Kenning, Numan, Sherman, Sobolewski, Talwar, Wijekumar, Zhou

Professors emeriti: Berry, Buckwalter, Fox, Gaggini, Matolyak, Matous, McNamara, Riban, Roberts, Whitson

Website: www.iup.edu/physics

Bachelor of Arts–Physics

Bachelor of Science

- Physics
- Applied Physics
- Applied Physics/Electro-Optics Track
- Applied Physics/Nanomanufacturing Technology Track

Associate in Applied Science–Electro-Optics

Associate in Science–Electro-Optics

Minor in Physics

Cooperative Pre-Engineering

The goal of the Department of Physics is to prepare fully qualified individuals for productive careers in physics. Five degrees are offered within the College of Natural Sciences and Mathematics: the Bachelor of Science degree with a major in Physics, the Bachelor of Arts degree with a major in Physics, the Bachelor of Science degree with a major in Applied Physics, the Associate in Applied Science in Electro-Optics, and the Associate in Science in Electro-Optics. The first three programs offer very good 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 electro-optics or for interdisciplinary research in the areas of computer science, chemistry, biology, and geology. A Bachelor of Science in Education with a major in Physics is also offered. 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 that satisfy the Natural Science requirements of the Liberal Studies program.

The two associate degrees in Electro-Optics, Associate in Applied Science in Electro-Optics (A.A.S.E.O.) and Associate in Science in Electro-Optics (A.S.E.O.), are designed to produce trained and skilled workers that will move into senior technician slots in the electro-optics industry, both locally and nationally. With the A.S.E.O. degree the student has a choice of either going directly to work or matriculating at the IUP main campus in the Electro-Optics track in Applied Physics. The two associate degrees, A.A.S.E.O and A.S.E.O., are offered at the IUP Northpointe Campus.

Nanomanufacturing Technology Track

The Bachelor of Science degree with a major in Applied Physics/Nanomanufacturing Technology Track (NMT) will help IUP students to take one semester of experiential learning in the high-tech field of semiconductor device manufacturing at the state-of-the-art facility at Penn State-University Park Campus. Nanofabrication industries using this technology are rapidly growing from biomedical applications to microelectronics. Graduates of the Applied Physics/NMT Track may enter careers in industry and education.

The students enrolled in Applied Physics/NMT Track will spend one semester (16 weeks) (18cr Capstone) in their Junior/Senior year at Penn State

(in the fall, spring, or summer [12 weeks]) for hands-on experience in high-tech semiconductor device manufacturing field. Students must earn a GPA of at least 3.0 in the required Science and Mathematics courses to be considered for admission into the Capstone semester at Penn State.

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Minor in Physics

To minor in Physics, a student must successfully complete 15 credits in Physics consisting of at least three courses at the 200 level or higher.

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 131-141](#), [PHYS 132-142](#), [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 Natural Science and the program outline for “[B.S.–Natural Science/Pre-Engineering.](#)”

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Bachelor of Arts–Physics

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 123 Natural Science: PHYS 131-141 and 132-142 Liberal Studies Electives: 4cr, MATH 124 , no courses with PHYS prefix		50
Major:		28
Required Courses:		
PHYS 131	Physics I-C Lecture	*cr (1)
PHYS 132	Physics II-C Lecture	*cr (1)
PHYS 141	Physics I-C Lab	*cr (1)
PHYS 142	Physics II-C Lab	*cr (1)
PHYS 222	Mechanics I	2cr
PHYS 223	Mechanics II	2cr
PHYS 231	Electronics	4cr
PHYS 322	Electricity and Magnetism I	2cr
PHYS 323	Electricity and Magnetism II	2cr
PHYS 331	Modern Physics	3cr
PHYS 350	Intermediate Experimental Physics I	3cr
PHYS 351	Intermediate Experimental Physics II	3cr
PHYS 473	Quantum Mechanics I	4cr
Controlled Electives:		
One additional PHYS majors course		3cr
Other Requirements:		
Additional Mathematics and Computer Science:		22-28
COSC 110	Problem Solving and Structured Programming	3cr
MATH 241	Differential Equations	3cr
MATH 342	Advanced Mathematics for Applications	4cr
Additional Natural Science Sequence		6cr
Additional Social or Natural Science Sequence (advanced)		6cr
Foreign Language Intermediate Level (2, 3)		0-6cr
Free Electives:		14-20
Total Degree Requirements:		120

- (1) Credits are counted in the Liberal Studies Natural Science requirement.
- (2) Intermediate-level Foreign Language may be included in Liberal Studies electives.
- (3) 6cr of computer language may substitute for the foreign language requirement: [COSC 110](#) and [210](#) or higher-level computer science courses ([COSC 250](#) recommended), with department permission.

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Bachelor of Science–Physics

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 123 Natural Science: PHYS 131-141 and 132-142 Liberal Studies Electives: 4cr, MATH 124 , no courses with PHYS prefix		50
Major:		37
Required Courses:		
PHYS 131	Physics I-C Lecture	*cr (1)
PHYS 132	Physics II-C Lecture	*cr (1)
PHYS 141	Physics I-C Lab	*cr (1)
PHYS 142	Physics II-C Lab	*cr (1)
PHYS 222	Mechanics I	2cr
PHYS 223	Mechanics II	2cr
PHYS 231	Electronics	4cr
PHYS 322	Electricity and Magnetism I	2cr
PHYS 323	Electricity and Magnetism II	2cr
PHYS 331	Modern Physics	3cr
PHYS 342	Thermal and Statistical Physics	3cr
PHYS 345	Optics	3cr
PHYS 350	Intermediate Experimental Physics I	3cr
PHYS 351	Intermediate Experimental Physics II	3cr
PHYS 473	Quantum Mechanics I	4cr
Controlled Electives:		
One course from the following: PHYS 472 or 490		3cr
One additional PHYS majors course		3cr
Other Requirements:		13-19
COSC 110	Problem Solving and Structured Programming	3cr
MATH 241	Differential Equations	3cr
MATH 342	Advanced Mathematics for Applications	4cr
One course from the following: COSC 250 , MATH 171 , 363 , 421 , 423		3cr
Foreign Language Intermediate Level (2, 3)		0-6cr
Free Electives:		14-20
Total Degree Requirements:		120
<ol style="list-style-type: none"> (1) Credits are counted in the Liberal Studies Natural Science requirement. (2) Intermediate-level Foreign Language may be included in Liberal Studies electives. (3) 6cr of computer language may substitute for the foreign language requirement: COSC 110 and 210 or higher-level computer science courses (COSC 250 recommended), with department permission. 		

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Bachelor of Science–Applied Physics

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 123 Natural Science: CHEM 111-112 (replaced by CHEM 113-114 for Chemistry track)	50
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Liberal Studies Electives: 4cr, MATH 124 , no courses with PHYS prefix			
Major:			28
Required Courses:			
PHYS 131	Physics I-C Lecture	3cr	
PHYS 132	Physics II-C Lecture	3cr	
PHYS 141	Physics I-C Lab	1cr	
PHYS 142	Physics II-C Lab	1cr	
PHYS 222	Mechanics I	2cr	
PHYS 231	Electronics	4cr	
PHYS 322	Electricity and Magnetism I	2cr	
PHYS 331	Modern Physics	3cr	
PHYS 345	Optics	3cr	
PHYS 352	Applied Physics Laboratory	3cr	
PHYS 355	Computer Interfacing	3cr	
Controlled Electives: According to Track			23-27
<i>Solid State Electronics Track:</i> COSC 300 , MATH 342 , PHYS 323 , 342 , 353 , 432 , 475 , 476		24cr	
<i>Computer Science Track:</i> COSC 300 , 310 , 410 , 450 , PHYS 342 , 353 , 432 , 475 , 476		27cr	
<i>Chemistry Track:</i> CHEM 231 , 232 , 323 , 341 , 342 , 343 , MATH 342		24cr	
<i>Biology Track:</i> BIOL 111 , 120 , CHEM 231 , 323 , 351 Two biology electives from the following: BIOL 250 , 263 , 350 , 401 , 472		27cr	
<i>Geology Track:</i> GEOS 121 , 122 , 131 , 132 Five Geoscience electives from the following: GEOS 220 , 325 , 326 , 362 , 412 , 440 , 481		23cr	
Other Requirements:			9-15
COSC 110	Problem Solving and Structured Programming	3cr	
COSC 250	Introduction to Numerical Methods	3cr	
MATH 241	Differential Equations	3cr	
Foreign Language Intermediate Level (1, 2)		0-6cr	
Free Electives:			0-10
Total Degree Requirements:			120
(1) Intermediate-level Foreign Language may be included in Liberal Studies electives.			
(2) 6cr of computer language may substitute for the foreign language requirement: COSC 110 and 210 or higher-level computer science courses (COSC 250 recommended), with department permission.			

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Bachelor of Science in Education–Physics (*)

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 123 Natural Science: CHEM 111-112 Social Sciences: PSYC 101 Liberal Studies Electives: 9cr, MATH 241 , BIOL 103 or 114 or 115 , GEOS 111 or 113 , no courses with PHYS prefix			55
College:			29
Preprofessional Education Sequence:			
COMM 103	Digital Instructional Technology	3cr	
EDSP 102	Educational Psychology	3cr	
Professional Education Sequence:			
EDEX 301	Education of Students with Disabilities in Inclusive Secondary Settings	2cr	

EDSP 477	Assessment of Student Learning: Design and Interpretation of Educational Measures	3cr
EDUC 242	Pre-student Teaching Clinical Experience I	1cr
EDUC 342	Pre-student Teaching Clinical Experience II	1cr
EDUC 441	Student Teaching	12cr
EDUC 442	School Law	1cr
EDUC 451	Teaching Science in the Secondary School	3cr
Major:		32
Required Courses:		
PHYS 131	Physics I-C Lecture	3cr
PHYS 132	Physics II-C Lecture	3cr
PHYS 141	Physics I-C Lab	1cr
PHYS 142	Physics II-C Lab	1cr
PHYS 222	Mechanics I	2cr
PHYS 223	Mechanics II	2cr
PHYS 231	Electronics	4cr
PHYS 322	Electricity and Magnetism I	2cr
PHYS 331	Modern Physics	3cr
PHYS 342	Thermal and Statistical Physics	3cr
PHYS 345	Optics	3cr
PHYS 350	Intermediate Experimental Physics I	3cr
Controlled Electives:		
Physics electives		2cr
Other Requirements:		4
Additional Math Course:		
MATH 124	Calculus II for Physics, Chemistry, and Mathematics	4cr
(#) Total Degree Requirements:		120
(*) See requirements leading to teacher certification, titled " 3-Step Process for Teacher Education ," in the College of Education and Educational Technology section of this catalog.		
(#) See advisory paragraph "Timely Completion of Degree Requirements" in the section on Requirements for Graduation.		

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Bachelor of Science–Applied Physics/Nanomanufacturing Technology Track

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 123 Natural Science: CHEM 111-112 Liberal Studies Electives: 4cr, MATH 124 , no course with PHYS prefix	50	
Major:	28	
Required Courses:		
PHYS 131	Physics I-C Lecture	3cr
PHYS 132	Physics II-C Lecture	3cr
PHYS 141	Physics I-C Lab	1cr
PHYS 142	Physics II-C Lab	1cr
PHYS 222	Mechanics I	2cr
PHYS 231	Electronics	4cr
PHYS 322	Electricity and Magnetism I	2cr
PHYS 331	Modern Physics	3cr
PHYS 345	Optics	3cr
PHYS 352	Applied Physics Laboratory	3cr

PHYS 355	Computer Interfacing	3cr	
Controlled Electives:			24
Nanomanufacturing Technology Track (18cr PSU Capstone)			
NMTT 311	Materials, Safety, and Equipment Overview for Nanofabrication	3cr	
NMTT 312	Basic Nanofabrication Process	3cr	
NMTT 313	Thin Films in Nanofabrication	3cr	
NMTT 314	Lithography and Patterning Techniques	3cr	
NMTT 315	Materials Modification in Nanofabrication	3cr	
NMTT 316	Characterization, Packaging, and Testing of Nanofabrication Structures	3cr	
PHYS 475	Physics of Semiconductor Devices I	3cr	
PHYS 476	Physics of Semiconductor Devices II	3cr	
Other Requirements:			9-15
COSC 110	Problem Solving and Structured Programming	3cr	
COSC 250	Introduction to Numerical Methods	3cr	
MATH 241	Differential Equations	3cr	
Foreign Language-Intermediate Level		0-6cr	
Free Electives:			3-9
Total Degree Requirements:			120

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Bachelor of Science–Applied Physics/Electro-Optics Track

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 121 Natural Science: CHEM 111-112 Liberal Studies Electives: 4cr, MATH 122 , no course with PHYS prefix			50
Major:			44
Required Courses:			
EOPT 105	Computer Interfacing in Electro-Optics	3cr	
EOPT 110	Geometric Optics	3cr	
EOPT 120	Wave Optics	3cr	
EOPT 125	Introduction to Electronics	4cr	
PHYS 100	Prelude to Physics	3cr	
PHYS 115	Physics I for Electro-Optics	3cr	
PHYS 116	Physics II for Electro-Optics	3cr	
PHYS 222	Mechanics I	2cr	
PHYS 322	Electricity and Magnetism I	2cr	
PHYS 331	Modern Physics	3cr	
PHYS 350	Intermediate Experimental Physics I	3cr	
Two courses from the following:		6cr	
EOPT 210	Detection and Measurement		
EOPT 220	Introduction to Lasers		
MGMT 234	Introduction to Quality Control		
Two courses from the following:		6cr	
EOPT 240	Fiber Optics		
EOPT 250	High-Vacuum Technology		
EOPT 260	Industrial Applications of Lasers		
Other Requirements:			15-21
COSC/BTED/IFMG 101 or COSC/BTED/COMM/IFMG 201		3cr	

COSC 110	Problem Solving and Structured Programming	3cr
COSC 250	Introduction to Numerical Methods	3cr
MATH 241	Differential Equations	3cr
SAFE 145	Workplace Safety Today and Tomorrow	3cr
Foreign Language-Intermediate Level (1, 2)		0-6cr
Free Electives:		5-11
Total Degree Requirements:		120
(1) Intermediate-level Foreign Language may be included in Liberal Studies electives.		
(2) 6cr of computer language may substitute for the foreign language requirement: COSC 110 and 210 or higher-level computer science courses (COSC 250 recommended), with department permission.		

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Associate in Applied Science–Electro-Optics (A.A.S.E.O.)

Liberal Studies: The following are the required Liberal Studies courses:		23-24
English Composition: ENGL 101		
Mathematics: MATH 110 or 121		
Humanities: 3cr		
Natural Science: CHEM 111		
Social Science: 3cr		
Liberal Studies Electives: SAFE 145 , COSC/BTED/IFMG 101 or COSC/BTED/COMM/IFMG 201		
Major:		37
Required Courses:		
EOPT 105	Computer Interfacing in Electro-Optics	3cr
EOPT 110	Geometric Optics	3cr
EOPT 120	Wave Optics	3cr
EOPT 125	Introduction to Electronics	4cr
EOPT 210	Detection and Measurement	3cr
EOPT 220	Introduction to Lasers	3cr
EOPT 240	Fiber Optics	3cr
EOPT 250	High-Vacuum Technology	3cr
EOPT 260	Industrial Applications of Lasers	3cr
PHYS 100	Prelude to Physics	3cr
PHYS 115	Physics I for Electro-Optics	3cr
PHYS 116	Physics II for Electro-Optics	3cr
Other Requirements:		3
MGMT 234	Introduction to Quality Control	3cr
Total Degree Requirements:		63-64

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Associate in Science–Electro-Optics (A.S.E.O.)

Liberal Studies: The following are the required Liberal Studies courses:		30
English Composition: ENGL 101		
Fine Arts: 3cr		
Humanities: 3cr		
Mathematics: MATH 121		
Natural Science: CHEM 111		
Social Sciences: 3cr		

Health/Wellness: 3cr		
Liberal Studies Electives: SAFE 145 , COSC/BTED/IFMG 101 or COSC/BTED/COMM/IFMG 201		
Major:		34
Required Courses:		
EOPT 105	Computer Interfacing in Electro-Optics	3cr
EOPT 110	Geometric Optics	3cr
EOPT 120	Wave Optics	3cr
EOPT 125	Introduction to Electronics	4cr
PHYS 100	Prelude to Physics	3cr
PHYS 115	Physics I for Electro-Optics	3cr
PHYS 116	Physics II for Electro-Optics	3cr
Two courses from the following:		6cr
EOPT 210	Detection and Measurement	
EOPT 220	Introduction to Lasers	
MGMT 234	Introduction to Quality Control	
Two courses from the following:		6cr
EOPT 240	Fiber Optics	
EOPT 250	High- Vacuum Technology	
EOPT 260	Industrial Applications of Lasers	
Total Degree Requirements:		64

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Department of Psychology

Chairperson: Mary Lou Zanich
Faculty: Berman, Federoff, Gallen, Goodwin, Hannah, Hatfield, Husenits, Kaniasty, LaPorte, Luo, McHugh, Meil, Neely, Pavloski, Raeff, Robertson, Roehrich, Sadler, Sherburne, Stires, Thornton, Zimny
Professors emeriti: Grover, Magee, Patton, Rich, Rittle, Schneider, Sussmann, Walz

Website: www.iup.edu/psychology

Bachelor of Arts

- [Psychology](#)
- [Psychology/Applied Psychology Track](#)
- [Psychology/Honors Program in Psychology](#)

Minors

- [Psychology](#)
 - [Psychological Science](#)
-

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.

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.

An honors program has been developed to enrich the education of qualified psychology majors and to assist students in gaining entrance to graduate school. The core for the program is the same as for the psychology major; special seminar classes and independent research experiences culminating in an Honors Thesis are required.

All psychology majors are required to take a minor or a concentration in another discipline.

Bachelor of Arts–Psychology

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 217 Natural Science: BIOL 103-104 recommended Social Science: PSYC 101 Liberal Studies Electives: 3cr, no course with PSYC prefix	48
Major:	34-39
Required Courses:	

PSYC 290	Research Design and Analysis I	4cr
PSYC 291	Research Design and Analysis II	4cr
Controlled Electives:		
A minimum of one course from each of the following six core areas: (1)		
A. <i>Developmental Psychology:</i>	PSYC 310, 311, 312, 315 (2)	3-4cr
B. <i>Individual Differences:</i>	PSYC 320, 321, 325	3-4cr
C. <i>Social/Environmental:</i>	PSYC 330, 331, 335 (3)	3-4cr
D. <i>Cognition/Learning:</i>	PSYC 341, 342, 345 (4)	3-4cr
E. <i>Biological Bases of Behavior:</i>	PSYC 350, 352, 355, 356, 359 (5)	3-4cr
F. <i>Metatheoretical Perspectives in Psychology:</i>	PSYC 410, 411	3cr
Other PSYC electives beyond PSYC 101		6-8cr
Other Requirements:		
Foreign Language Intermediate Level (6)		0-6cr
Minor/concentration		15cr
Free Electives:		
12-23		
Total Degree Requirements:		
120		
(1) At least two must be content-based laboratory courses.		
(2) Credit toward the major will be given for only one of PSYC 310, 311, or 315.		
(3) Credit toward the major will be given for only one of PSYC 330 or 335.		
(4) Credit toward the major will be given for only one of PSYC 342 or 345.		
(5) Credit toward the major will be given for only one of PSYC 350 or 356.		
(6) Intermediate-level Foreign Language may be included in Liberal Studies electives.		

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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 103-104 recommended Social Science: ECON 121, PSYC 101 Liberal Studies Electives: 3cr, no course with PSYC prefix		48
Major:		
38-41		
Required Courses:		
PSYC 290	Research Design and Analysis I	4cr
PSYC 291	Research Design and Analysis II	4cr
PSYC 421	Psychology of Work	3cr
PSYC 425	Experimental Organizational Psychology	4cr
PSYC 493	Psychological Practicum (1)	3cr
Controlled Electives:		
A minimum of one course from each of the following six core areas: (2)		
A. <i>Developmental Psychology:</i>	PSYC 310, 311, 312, 315 (3)	3-4cr
B. <i>Individual Differences:</i>	PSYC 320, 321, 325	3-4cr
C. <i>Social/Environmental:</i>	PSYC 330, 331, 335 (4)	3-4cr
D. <i>Cognition/Learning:</i>	PSYC 341, 342, 345 (5)	3-4cr
E. <i>Biological Bases of Behavior:</i>	PSYC 350, 352, 355, 356, 359 (6)	3-4cr
F. <i>Metatheoretical Perspectives in Psychology:</i>	PSYC 410, 411	3cr
Other Requirements:		
15-21		
Outside Concentration:		
ECON 122	Principles of Microeconomics	3cr
ECON 330	Labor Economics	3cr

ILR 480	Principles and Practices of Collective Bargaining	3cr
Two courses, as approved by advisor (7)		6cr
Foreign Language Intermediate Level (8)		0-6cr
Free Electives:		10-19
Total Degree Requirements:		120
<p>(1) Department recommends at least 6cr of PSYC 493.</p> <p>(2) At least two must be content-based laboratory courses.</p> <p>(3) Credit toward the major will be given for only one of PSYC 310, 311, 315.</p> <p>(4) Credit toward the major will be given for only one of PSYC 330 or 335.</p> <p>(5) Credit toward the major will be given for only one of PSYC 342 or 345.</p> <p>(6) Credit toward the major will be given for only one of PSYC 350 or 356.</p> <p>(7) Department highly recommends PSYC 424 and recommends one course from business or another applied area.</p> <p>(8) Intermediate-level Foreign Language may be included in Liberal Studies electives.</p>		

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Bachelor of Arts–Psychology/Honors Program in Psychology

Liberal Studies: As outlined in Liberal Studies section with the following specifications: Mathematics: MATH 217 Natural Science: BIOL 103-104 recommended Social Science: PSYC 101 Liberal Studies Electives: 3cr, no course with PSYC prefix		48
Major:		40-43
Required Courses:		
PSYC 290	Research Design and Analysis I	4cr
PSYC 291	Research Design and Analysis II	4cr
PSYC 480	Honors Seminar in Psychology (1)	6cr
PSYC 483	Honors Thesis (2)	6cr
Controlled Electives:		
A minimum of one course from each of the following six core areas: (3)		
A. <i>Developmental Psychology:</i> PSYC 310 , 311 , 312 , 315 (4)		3-4cr
B. <i>Individual Differences:</i> PSYC 320 , 321 , 325		3-4cr
C. <i>Social/Environmental:</i> PSYC 330 , 331 , 335 (5)		3-4cr
D. <i>Cognition/Learning:</i> PSYC 341 , 342 , 345 (6)		3-4cr
E. <i>Biological Bases of Behavior:</i> PSYC 350 , 352 , 355 , 356 , 359 (7)		3-4cr
F. <i>Metatheoretical Perspectives in Psychology:</i> PSYC 410 , 411		3cr
Other Requirements:		15-21
Foreign Language Intermediate Level (8)		0-6cr
Minor/Concentration		15cr
Free Electives:		8-17
Total Degree Requirements:		120
<p>(1) Students will enroll in PSYC 480 for 3cr in each of two semesters.</p> <p>(2) Students will enroll in PSYC 483 for 3cr in each of two semesters.</p> <p>(3) At least two must be content-based laboratory courses.</p> <p>(4) Credit toward the major will be given for only one of PSYC 310, 311, 315.</p> <p>(5) Credit toward the major will be given for only one of PSYC 330 or 335.</p> <p>(6) Credit toward the major will be given for only one of PSYC 342 or 345.</p> <p>(7) Credit toward the major will be given for only one of PSYC 350 or 356.</p>		

(8) Intermediate-level Foreign Language may be included in Liberal Studies electives.

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Minor–Psychology

18-19

Required Courses:			
PSYC 101	General Psychology (1)	3cr	
PSYC 280 <i>or</i>	Psychological Inquiry <i>or</i>	3cr	
PSYC 290	Research Design and Analysis I (2)	4cr	
Four other PSYC electives beyond PSYC 101 (3, 4)		12cr	
(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 PSYC 310 , 311 , or 315 .			

Minor–Psychological Science

17-18

Required Courses:			
PSYC 101	General Psychology (1)	3cr	
PSYC 290	Research Design and Analysis I (2)	4cr	
One course from core areas A, B, or C (3)		3-4cr	
One course from core areas D or E (3)		3-4cr	
One PSYC elective		3-4cr	
(1) Meets Liberal Studies requirement.			
(2) Prerequisite: MATH 217 .			
(3) At least one course must be a content-based laboratory course.			

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Foundations of Education (FDED)

Department of Foundations of Education
College of Education and Educational Technology

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

FDED 102 American Education in Theory and Practice
FDED 281 Special Topics
FDED 440 Orientation to Teaching in Urban Centers
FDED 441 Field Experiences in Urban Centers
FDED 442 Interpreting Urban/Field Experiences
FDED 454 Public School Administration
FDED 456 Issues and Trends in Education
FDED 481 Special Topics
FDED 482 Independent Study

FDED 102 American Education in Theory and Practice

3c-0l-3cr

Familiarizes prospective teachers with the history and philosophy of American education and with some of the practical aspects of teaching in the American public school classroom.

FDED 281 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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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FDED 440 Orientation to Teaching in Urban Centers

3c-0l-3cr

Provides an understanding of learners and their unique learning needs and conditions. Emphasizes 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 are emphasized.

FDED 441 Field Experiences in Urban Centers

var-1-6cr

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 are considered in making field experience assignments. Schools selected for student experience are located in Pittsburgh.

FDED 442 Interpreting Urban/Field Experiences

var-3cr

Prerequisites: [FDED 440, 441](#)

An 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 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-01-3cr

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-01-3cr

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-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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-1-3cr

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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Vocational Education (VOED)

Center for Career and Technical Personnel Preparation School of Continuing Education

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

VOED 010 Industrial Electrical Technology
VOED 100 Preparation of the Vocational Professional I
VOED 281 Special Topics
VOED 395 Vocational Education Writing Experience
VOED 400 Preparation of the Vocational Professional II
VOED 401 Special Topics in Vocational Technical Preparation
VOED 402 Special Topics in Vocational Pedagogical Preparation
VOED 450 Technical Preparation of the Vocational Professional
VOED 481 Special Topics
VOED 482 Independent Study

VOED 010 Industrial Electrical Technology

var-1-18cr
Prerequisite: Center/department permission
Emphasizes 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-1-15cr
Personalized, self-paced vocational teacher preparation. 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-1-3cr
Prerequisite: As appropriate to course content
Offered on an experimental or temporary basis to explore topics not 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-0cr
Writing assignments such as abstracts, logs of activities, philosophy papers, training plans, presentation plans, lesson plans, etc., are completed in conjunction with selected instructional modules from [VOED 100](#) and [400](#).

VOED 400 Preparation of the Vocational Professional II

var-1-15cr

Prerequisite: Successful completion of [VOED 100](#)

Personalized, self-paced vocational teacher preparation. 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-1-12cr

Prerequisite: Center permission

Provides students opportunities 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.

VOED 402 Special Topics in Vocational Pedagogical Preparation

var-1-15cr

Prerequisite: Center permission

Provides opportunities 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

24cr

Competency assessment of occupational experience through national standardized written and performance examinations.

VOED 481 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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.

VOED 482 Independent Study

var-1-3cr

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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Advising and Testing (ADVT)

Advising and Testing Center
Division of Student Affairs

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

ADVT 170 Career Exploration

1c-0l-1cr

Introduces the theoretical and practical framework with which to explore careers compatible with overall academic skills, aptitudes, and life goals. Students examine the world of work, assess their interests and abilities, and make realistic decisions on academic majors and careers. Notes: 1) Certain sections of this course will be restricted to specific enrollment groups. 2) Offered as ED 170 prior to 1997-98. 3) Cross-listed as [DVST 170](#). These courses may be substituted for each other and be used interchangeably for D or F repeats but may not be counted for duplicate credit.



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Art Education (ARED)

Department of Art
College of Fine Arts

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

ARED 281 Special Topics
ARED 315 Issues of Art in K-12 Programs
ARED 317 Art in K-6 Programs
ARED 318 Art in 7-12 Programs
ARED 320 Art Criticism and Aesthetics in K-12 Programs
ARED 321 Art History Inquiry for K-12 Art Programs
ARED 322 Studio Inquiry for K-12 Programs
ARED 481 Special Topics
ARED 482 Independent Study

ARED 281 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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 Issues of Art in K-12 Programs

3c-0l-3cr

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. Taught Fall semester only. (Prerequisite to student teaching) (Titled Survey in Art Education prior to 2003-04)

ARED 317 Art in K-6 Programs

1c-3l-3cr

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) Taught Fall semester only. (Titled Art Education Methodology at the Elementary Level prior to 2003-04)

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ARED 318 Art in 7-12 Programs

1c-3l-3cr

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. Taught Spring semester only. (Prerequisite to student teaching) (Titled Art Education Methodology at the Secondary Level prior to 2003-04)

ARED 320 Art Criticism and Aesthetics in K-12 Programs

3c-0l-3sh

Prerequisites: [ARED 315](#) (minimum C grade) and Art Education major

Secure the knowledge and skills necessary to teach a program of comprehensive art that includes the discipline of art criticism. Establishes

theoretical frameworks for writing intelligently and talking about art with students from a critical perspective. Also provides opportunities for developing curricular and pedagogical materials appropriate for teaching art.

ARED 321 Art History Inquiry for K-12 Art Programs

3c-01-3sh

Prerequisites: [ARED 315](#) (minimum C grade) and Art Education major

Explores methods, media, and activities that integrate art history content into the school art curriculum. Students plan and execute lessons which are appropriate at various grade levels and which emphasize art history and knowledge of artistic diversity worldwide. Students prepare one unit on a selected theme, in addition to other written or artistic assignments. Preparation of art history-related projects and instructional materials for classroom use are also components of the course.

ARED 322 Studio Inquiry for K-12 Programs

3c-01-3sh

Prerequisites: [ARED 315](#) (minimum C grade) and Art Education major

Art processes, media, and techniques suitable for teaching art to elementary and secondary students are examined and researched as modes of learning and creating. A major focus is on developing curricula and pedagogical materials relating to the theory and practice of teaching art, as well as integrating studio experiences with art criticism, art history, and aesthetics. Students apply demonstrated techniques and processes to sample projects and combine these with research into a portfolio for teaching studio art within comprehensive art lessons.

ARED 481 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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-1-3cr

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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Biochemistry (BIOC)

Biochemistry Program College of Natural Sciences and Mathematics

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

BIOC 301 Biochemistry I
BIOC 302 Biochemistry II
BIOC 311 Biochemistry Laboratory I
BIOC 312 Biochemistry Laboratory II
BIOC 480 Biochemistry Seminar I
BIOC 481 Special Topics in Biochemistry
BIOC 482 Independent Research in Biochemistry
BIOC 490 Biochemistry Seminar II

BIOC 301 Biochemistry I

3c-0l-3cr

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-0l-3cr

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-1cr

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.

BIOC 312 Biochemistry Laboratory II

0c-4l-1cr

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.

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BIOC 480 Biochemistry Seminar I

1c-0l-1cr

Prerequisites: [BIOC 302](#) and [312](#)

A discussion of recent trends in biochemical thought. Oral and written reports on assigned readings, and library or laboratory research. Guest lecturers. The combination [BIOC 480-490](#) counts as one writing-intensive course.

BIOC 481 Special Topics in Biochemistry

var-1-3cr

Prerequisite: [BIOC 302](#) or [CHEM 351](#)

A lecture-discussion course of recent biochemical topics or those of unique interest. Topic and instructors to change annually.

BIOC 482 Independent Research in Biochemistry

var-1-3cr

Prerequisites: [BIOC 302](#) and [312](#), 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-0l-1cr

Prerequisites: [BIOC 302](#), [312](#), and [480](#)

A discussion of recent trends in biochemical thought. Oral and written reports on assigned readings, and library or laboratory research. Guest lecturers. The combination [BIOC 480-490](#) counts as one writing-intensive course.

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Medical Technology (MEDT)

Department of Nursing and Allied Health Professions
College of Health and Human Services

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

MEDT 494 Clinical Microbiology
MEDT 495 Clinical Chemistry
MEDT 496 Clinical Hematology/Coagulation
MEDT 497 Clinical Immunohematology
MEDT 498 Clinical Immunology/Serology
MEDT 499 Clinical Seminar

MEDT 494 Clinical Microbiology

var-6-10cr

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-7-10cr

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, spectrophotometry, electrophoresis, chromatography, automation, and quality control.

MEDT 496 Clinical Hematology/Coagulation

var-4-7cr

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.

MEDT 497 Clinical Immunohematology

var-3-6cr

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-2-4cr

Immune response, immunoglobulins, autoimmunity, and complement and related tests and diseases. Survey and demonstration of serological diagnostic tests.

MEDT 499 Clinical Seminar

var-0-6cr

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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College of Humanities and Social Sciences (CHSS)

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

CHSS 489 Honors Colloquium

3c-0l-3cr

Prerequisites: Admission to a Departmental Honors Program in The College of Humanities and Social Sciences, [HNRC 201](#), or instructor permission

A multidisciplinary colloquium emphasizing problem-solving, discussion, reading, and writing on a topic or theme that will vary from semester to semester according to the expertise of the faculty member(s) teaching the course. Could focus on an issue that would be explored from a number of multidisciplinary perspectives, or bring related disciplines together to cover issues that spring from a common methodological technique. Open to all students who have been admitted to the Departmental Honors Program in their major, to Robert E. Cook Honors College students who have completed [HNRC 201](#), and, with instructor permission, to other juniors or seniors who have a cumulative GPA of at least a 3.5.



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Counseling and Student Development (CNSD)

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

CNSD 150 Life Skills: Improving Your Social and Emotional Intelligence

1c-0l-1cr

Prerequisite: Instructor permission

Provides practical, hands-on, cognitive, emotional, and interpersonal skills which help students 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 are 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 (COUN)

Department of Counseling
College of Education and Educational Technology

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

COUN 250 Developing Interpersonal Relationship Skills
COUN 253 Counseling in School Settings
COUN 281 Special Topics
COUN 481 Special Topics
COUN 482 Independent Study

COUN 250 Developing Interpersonal Relationship Skills

1c-0l-1cr

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-0l-3cr

An elective course providing 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-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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.

COUN 481 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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-1-3cr

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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Developmental Studies (DVST)

Department of Developmental Studies
Division of Student Affairs

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

DVST 070 Reading Skills for College Study
DVST 075 Reading and Study Skills Applications
DVST 090 Introduction to College Math I
DVST 091 Developmental Mathematics, Arithmetic Operations
DVST 092 Developmental Mathematics, Elemental Topics
DVST 093 Developmental Mathematics, Elements of Algebra
DVST 095 Introduction to College Math II
DVST 110 Introduction to Critical Reading and Thinking
DVST 150 Introduction to Higher Education
DVST 160 Learning Strategies
DVST 170 Career Exploration
DVST 201 Vocabulary Expansion
DVST 250 Role of the Peer Educator: Theory, Practice, and Assessment

DVST 070 Reading Skills for College Study

3c-0l-3cr

Assists 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. (Offered as LRNC 070 prior to 2006-07)

DVST 075 Reading and Study Skills Applications

1c-0l-1cr

Assists in the applications of college-level reading and study skills to content-area coursework. 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. Participate in small-group instruction as well as individual appointments with the instructor. Carries institutional, nondegree credit. Attendance is required. (Offered as LRNC 075 prior to 2006-07)

DVST 090 Introduction to College Math I

3c-0l-3cr

Prerequisite: May not register for this course after successfully completing any course offered by the Mathematics Department without the written approval of the Department of Developmental Studies 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. Attendance is required. (Offered as LRNC 090 prior to 2006-07)

DVST 091 Developmental Mathematics, Arithmetic Operations

1c-0l-1cr

Prerequisite: May not register for this course after successfully completing any course offered by the Mathematics Department without written

approval of the Department of Developmental Studies director

Explores the basics of counting principles, place value, arithmetic operations, exponential notation, and fractional notation through a base 8 perspective. Vocabulary, concept development, and algorithms related to the above topics are presented in a lecture format. Supplemental Instruction is provided. Carries institutional, nondegree credit. Attendance is required. (Offered as LRNC 091 prior to 2006-07)

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DVST 092 Developmental Mathematics, Elemental Topics

1c-01-1cr

Prerequisite: May not register for this course after successfully completing any course offered by the Mathematics Department without written approval of the Department of Developmental Studies director

Provides minimal algebra skills prior to introducing basic probability and descriptive statistics concepts as well as a review of basic geometry concepts and algorithms. Topics include identification and simplification of terms and expressions; mean, median, mode calculations; bar, line, and circle graph construction and interpretation; application and calculation of plane geometry formulae. Carries institutional, nondegree credit. Attendance is required. (Offered as LRNC 092 prior to 2006-07)

DVST 093 Developmental Mathematics, Elements of Algebra

1c-01-1cr

Prerequisite: May not register for this course after successfully completing any course offered by the Mathematics Department without written approval of the Department of Developmental Studies director

Introduces algebraic concepts and algorithms with a comparison of Arithmetic algorithms to associated Algebraic algorithms. Topics include properties and operations on real numbers, simplifying expressions, order of operations, solving equations and inequalities, formulas, exponential and scientific notation, and operations on polynomials. Carries institutional, nondegree credit. Attendance is required. (Offered as LRNC 093 prior to 2006-07)

DVST 095 Introduction to College Math II

3c-01-3cr

Prerequisite: May not register for this course after successfully completing any course offered by the Mathematics Department, without written approval of the Department of Developmental Studies 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. Attendance is required. (Offered as LRNC 095 prior to 2006-07)

DVST 110 Introduction to Critical Reading and Thinking

2c-01-2cr

Focuses on the development and mastery of skills related to the processes of understanding, analyzing, and assessing college-level texts and other academic readings. Synthesizes written information from a variety of sources and content areas. Note: For sections paired with specific content-area course sections, students are required to register for both courses. (Offered as LRNC 110 prior to 2006-07)

DVST 150 Introduction to Higher Education

1c-01-1cr

Introduces the system of higher education and skills that promote effective educational planning and academic success. Orients students to the systems, resources, policies, and procedures of IUP and to the Liberal Studies curriculum. Emphasizes goal setting, decision making, self-monitoring, and time-management skills. (Offered as LRNC 150 prior to 2006-07)

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DVST 160 Learning Strategies

1c-01-1cr

Encourages students to develop and use effective and efficient study strategies on a consistent basis. Students examine 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 are 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. (Offered as LRNC 160 prior to 2006-07)

DVST 170 Career Exploration

1c-01-1cr

Introduces the theoretical and practical framework with which to explore careers compatible with overall academic skills, aptitudes, and life goals. Students examine the world of work, assess their interests and abilities, and make realistic decisions on academic majors and careers. (Cross-listed as [ADVT 170](#). These courses may be substituted for each other and be used interchangeably for D or F repeats but may not be counted for

duplicate credit.) (Offered as LRNC 170 prior to 2006-07)

DVST 201 Vocabulary Expansion

2c-01-2cr

Assists students to develop an enriched vocabulary through learning and applying knowledge of Latin and Greek word parts and mastering the meanings and use of mature words based on those word parts. The primary emphasis is on developing the reading vocabulary, but attention is also given to students' writing, listening, and speaking vocabularies. (Offered as LRNC 201 prior to 2006-07)

DVST 250 Role of the Peer Educator: Theory, Practice, and Assessment

1c-01-1cr

Prerequisites: Instructor permission

Prepares selected students for the role of a peer educator within the higher education setting. Topics include student learning and problem solving, facilitative helping and interpersonal communication, peer leadership, and assisting peers with how to effectively and efficiently succeed at the college level. (Roles include Supplemental Instruction leader, tutor, peer advisor, workshop leader.)

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Distributive Education (DEDU)

Department of Technology Support and Training
Eberly College of Business and Information Technology

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

DEDU 281 Special Topics
DEDU 331 Modern Merchandising
DEDU 413 Methods and Evaluation in Marketing Education
DEDU 481 Special Topics
DEDU 482 Independent Study

Note: Except for Accounting, Business Education, and nonbusiness majors who have met the required prerequisites, students scheduling 300 and 400 courses are expected to have achieved junior standing as described in the Eberly College of Business and Information Technology Academic Policies.

DEDU 281 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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-0l-3cr

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.

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DEDU 413 Methods and Evaluation in Marketing Education

3c-0l-3cr

Prerequisites: BTED 111, DEDU 333, [EDSP 102](#), and [MKTG 320](#)

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 are prepared. Students select sections needed for certification.

DEDU 481 Special Topics

3c-0l-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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.

DEDU 482 Independent Study

var-1-3cr

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/PreK-Grade 6 (ECED)

Department of Professional Studies in Education
College of Education and Educational Technology

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

EDED 180 Orientation to the ECED/PreK-Grade 6 Program
ECED 200 Introduction to Early Childhood Education
ECED 220 Children's Literature to Enhance Emergent and Beginning Reading
ECED 280 Maximizing Learning
ECED 281 Special Topics
ECED 310 Science and Health in the Literacy-based Early Childhood Curriculum
ECED 314 Creative Experiences to Enhance Literacy Acquisition
ECED 451 Teaching Primary Reading
ECED 480 Professional Seminar: Teacher as Researcher and Advocate
ECED 481 Special Topics
ECED 482 Independent Study

Note: Courses in Early Childhood Education/PreK-Grade 6 are restricted to majors with a 3.0 cumulative GPA.

ECED 180 Orientation to the ECED/Pre-K-Grade 6 Program

1c-0l-1cr

Prerequisite: Declared Early Childhood Education/PreK-Grade 6 major

Familiarizes students with the professional development school communities in which they will become actively involved throughout the program. Provides an overview of the Early Childhood Education/PreK-Grade 6 teacher certification program of study. Offered Spring semester only.

ECED 200 Introduction to Early Childhood Education

3c-0l-3cr

Prerequisite: Admission to the Early Childhood Education/PreK-Grade 6 Program

Introduces prospective teachers to the historical, sociological, and political aspects of early childhood education. Emphasizes appreciating diversity in the early childhood classroom and on developing keen observation strategies to both heighten understanding of children and evaluate programs that serve them. Five hours of service learning are required.

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ECED 220 Children's Literature to Enhance Emergent and Beginning Reading

3c-0l-3cr

Prerequisite: Admission to the Early Childhood Education/PreK-Grade 6 Program

Focuses on the study of young children's acquisition of speaking, listening, reading, and writing skills and the importance of a developmentally appropriate and effective language arts curriculum for young children. Emphasizes strategies for developing children's literacy skills and integrating children's literature throughout the early childhood curriculum. Observations, interviews, and teaching experiences are an integral part of the course. Seven hours of service learning are required. (Writing-intensive course)

ECED 280 Maximizing Learning

3c-0l-3cr

Prerequisite: Admission to Early Childhood Education/PreK-Grade 6 Program

Further an understanding of the organization and management of functional learning environments and the use of curriculum development principles and strategies to design, implement, and evaluate educationally sound and developmentally effective learning experiences for young children.

ECED 281 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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.

ECED 310 Science and Health in the Literacy-based Early Childhood Curriculum

3c-01-3cr

Prerequisite: Admission to the Early Childhood Education/PreK-Grade 6 Program

Emphasizes the need for high-quality, meaningful science and health experiences in early childhood, across a developmental curriculum. Teaches how to provide young children with unique opportunities to explore phenomena, use skills of scientific inquiry, cultivate scientific dispositions, and build a foundation for understanding core scientific and health concepts.

ECED 314 Creative Experiences to Enhance Literacy Acquisition

3c-01-3cr

Prerequisite: Admission to the Early Childhood Education/PreK-Grade 6 Program

Provides the knowledge and skills necessary to incorporate creative music, art, movement, and play activities into the comprehensive early childhood curriculum. Integration of creative experiences designed to enhance literacy acquisition will be emphasized, as well as the historical, theoretical, and research base for the integration of creative experiences into the curriculum. Students engage in supervised field experiences during which they will engage preschool students in literacy-focused creative experiences. Eight hours of service learning focusing on early literacy acquisition are required.

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ECED 451 Teaching Primary Reading

3c-01-3cr

A methods course to assist 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 480 Professional Seminar: Teacher as Researcher and Advocate

1c-01-1cr

Prerequisites: Admission to student teaching; enrollment limited to Early Childhood Education/PreK-Grade 6 majors. Must be taken in conjunction with [EDUC 441](#).

Provides ongoing support related to candidates' work in early childhood classrooms. Students conduct a rudimentary action research project focused on literacy acquisition, engage in informed advocacy efforts for young children and the profession, and examine the theoretical and research base for multicultural and anti-bias educational practices.

ECED 481 Special Topics

var-3cr

Prerequisite: Prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office

Topics in education appropriate for the Early Childhood Education setting.

ECED 482 Independent Study

var-1-3cr

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 Deaf and Hard-of-Hearing Persons (EDHL)

Department of Special Education and Clinical Services
College of Education and Educational Technology

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

EDHL 114 Introduction to Deaf and Hard-of-Hearing Persons
EDHL 115 Introduction to American Sign Language
EDHL 215 Intermediate American Sign Language
EDHL 281 Special Topics
EDHL 307 Speech for Deaf and Hard-of-Hearing Persons
EDHL 308 Language for Deaf and Hard-of-Hearing Persons
EDHL 314 Deaf Culture
EDHL 315 Manually Coded English
EDHL 316 Interpreting for Teachers
EDHL 329 Teaching–Collaborative Practicum I
EDHL 330 Teaching–Collaborative Practicum II
EDHL 360 General Methodology for Education of Deaf and Hard-of-Hearing Persons I
EDHL 361 General Methodology for Education of Deaf and Hard-of-Hearing Persons II
EDHL 415 ASL Pedagogy
EDHL 451 Teaching Reading to Deaf and Hard-of-Hearing Persons
EDHL 465 Parent-Preschool Programs for Deaf and Hard-of-Hearing Persons
EDHL 481 Special Topics
EDHL 482 Independent Study

EDHL 114 Introduction to Deaf and Hard-of-Hearing Persons

3c-0l-3cr

Deals with the different approaches used in teaching students who are deaf or hard of hearing—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 are 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 American Sign Language

1c-1l-1cr

Development of manual dexterity and fluency using fingerspelling. Acquisition of basic American Sign Language syntax, semantics, vocabulary, and pragmatics. Practice in acquiring general information from a signed message and conversing informally on commonly used topics.

EDHL 215 Intermediate American Sign Language

2c-1l-2cr

Prerequisites: [EDHL 115](#), 3.0 GPA required for EDHL majors, 2.8 GPA for EDHL minors

Emphasizes vocabulary expansion, comprehension of signed information, and development of fluency in conveying a message in American Sign Language. Focuses on idiom-like expressions, number systems, rules, grammar, and conversational language. Total immersion approach is used. (Offered as EDHL 244 prior to 2003-04)

EDHL 281 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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 Deaf and Hard-of-Hearing Persons

3c-0l-3cr

Prerequisites: [EDHL 114](#), 3.0 GPA

Techniques for developing, diagnosing, analyzing, and correcting the speech and voice problems of persons who are deaf or hard of hearing. Includes lecture, demonstration, and special projects.

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EDHL 308 Language for Deaf and Hard-of-Hearing Persons

3c-0l-3cr

Prerequisites: [EDHL 114](#), 3.0 GPA

Development and remediation of language of the hearing impaired. Language sampling and diagnostics, sentence patterning, and analytic versus natural teaching methods. Structuring a communicative environment.

EDHL 314 Deaf Culture

3c-0l-3cr

A survey of sociocultural factors that define deaf persons as members of a cultural minority. Includes an examination of deaf history, a review of contributions of deaf persons to American society, and hearing attitudes toward sign language and deaf culture.

EDHL 315 Manually Coded English

1c-1l-1cr

Prerequisites: [EDHL 114](#), [115](#), [215](#), 3.0 GPA

Provides the basics of using Manually Coded English (MCE) as an instructional tool. Rationale for MCE is emphasized with special consideration of reasons for appropriateness of approach. Sign systems used with deaf and hard-of-hearing persons, as well as other exceptional individuals, are included with emphasis on signing according to acceptable syntactical English structure.

EDHL 316 Interpreting for Teachers

1c-1l-1cr

Prerequisites: [EDHL 115](#), [215](#), [315](#)

Provides future teachers of deaf and hard-of-hearing students with basic competency in interpreting from spoken English to sign language and from sign language to spoken English. Includes ethics of interpreting, the role of an interpreter, and basic interpreting principles. Extensive practice is required.

EDHL 329 Teaching–Collaborative Practicum I

var-1cr

Prerequisites: [EDHL 114](#), [115](#), [215](#), [360](#); 3.0 GPA

Provides actual contact with children who are deaf or hard of hearing. Practica will be set up in appropriate school/clinic/itinerant programs where the academic needs of students who are deaf or hard of hearing are being addressed. Behavioral observation and collaboration skills are developed initially to prepare students to work in instructional pairs. Guidance in the development and execution of lesson plans is provided. Instructional collaboration is emphasized. Written reports of the practica are submitted and discussed.

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EDHL 330 Teaching–Collaborative Practicum II

var-1cr

Prerequisites: [EDHL 329](#), 3.0 GPA

Provides actual contact with children who are deaf or hard of hearing. Practica will be set up in appropriate school/clinic/itinerant programs where the academic needs of students who are deaf or hard of hearing are being addressed. Behavioral observation and collaboration skills are developed initially to prepare students to work in instructional pairs. Guidance in the development and execution of lesson plans is provided. Instructional collaboration is emphasized. Written reports of the practica are submitted and discussed. A continuation of EDHL 329; includes peer support and supervision of students in [EDHL 329](#).

EDHL 360 General Methodology for Education of Deaf and Hard-of-Hearing Persons I

2c-0l-2cr

Prerequisites: [EDHL 114](#), [115](#), [215](#), 3.0 GPA

Provides a systematic coverage of the basic procedures for maintaining legal educational mandates (IDEA) and teaching curriculum subjects. Includes the development of an Evaluation Report and Individualized Education Plan and adaptive methods of instruction for teaching mathematics and science. The Pennsylvania K-12 Academic Standards are used to guide the construction of lessons that are developmentally appropriate and follow current best practices in education.

EDHL 361 General Methodology for Education of Deaf and Hard-of-Hearing Persons II

2c-01-2cr

Prerequisites: [EDHL 114](#), [115](#), [215](#), 3.0 GPA

Provides a systematic coverage of the basic procedures for teaching curriculum subjects to deaf or hard-of-hearing students. Includes the technology-enhanced development of lesson plans and unit plans as well as adaptive methods of instruction for teaching language arts (reading-writing-listening-speaking/signing), social studies/deaf studies, and health. The Pennsylvania K-12 Academic Standards are used to guide the construction of lessons that are developmentally appropriate and follow current best practices in the education of deaf or hard-of-hearing students. The second half of a two-part general methods course sequence.

EDHL 415 ASL Pedagogy

1c-11-1cr

Prerequisites: [EDHL 114](#), [115](#), [215](#), [315](#), [316](#), 3.0 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. (Offered as EDHL 331 prior to 2003-04)

EDHL 451 Teaching Reading to Deaf and Hard-of-Hearing Persons

3c-01-3cr

Prerequisites: [EDHL 308](#), 3.0 GPA

Presents basic concepts of developmental reading instruction and systematic coverage of the methods of teaching reading to students who are deaf or hard of hearing from readiness stages through upper school. (Offered as EDHL 351 prior to 2003-04)

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EDHL 465 Parent-Preschool Programs for Deaf and Hard-of-Hearing Persons

3c-01-3cr

Prerequisites: [EDEX 112](#), [EDHL 114](#), [307](#), [308](#), [SPLP 334](#), 3.0 GPA

Developing home/preschool programs for parents and infants who are deaf or hard of hearing (0-3 years). Teaching speech, language, speechreading, use of residual hearing, and developing readiness skills at the preschool level. (Offered as EDHL 365 prior to 2003-04)

EDHL 481 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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-1-3cr

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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Electro-Optics (EOPT)

Department of Physics
College of Natural Sciences and Mathematics

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

EOPT 105 Computer Interfacing in Electro-Optics
EOPT 110 Geometric Optics
EOPT 120 Wave Optics
EOPT 125 Introduction to Electronics
EOPT 210 Detection and Measurement
EOPT 220 Introduction to Lasers
EOPT 240 Fiber Optics
EOPT 250 High-Vacuum Technology
EOPT 260 Industrial Applications of Lasers

EOPT 105 Computer Interfacing in Electro-Optics

2c-3l-3cr

Teaches the fundamentals of interfacing the personal computer to its physical surroundings such as electro-optics equipment. Students do graphical programming and learn to use virtual instruments in order to collect data and to control experiments. They use a program that employs graphical block diagrams that compile into machine code. Includes a lab component.

EOPT 110 Geometric Optics

2c-3l-3cr

Corequisite or Prerequisite: [PHYS 100](#)

Introduces the principles and theory of light as a geometric ray and gives an elementary treatment of image formation. Topics include reflection, refraction, prisms, lenses, mirrors, pupils, stops, aberrations, optical instruments, aspherical surfaces, and optical system design and evaluation. Includes a lab component.

EOPT 120 Wave Optics

2c-3l-3cr

Prerequisite: [EOPT 110](#)

Corequisite or Prerequisite: [MATH 110](#) or [121](#)

Provides the basic knowledge of the wave nature of light. Topics include spectral characteristics of light, propagation of light, interference, diffraction, polarization, windows, filters, beam splitters, and gratings. Includes a lab component.

EOPT 125 Introduction to Electronic

3c-3l-4cr

Corequisite or Prerequisite: [MATH 110](#) or [121](#)

Introduces basic analog and digital electronics. Emphasizes direct current (DC) circuits and networks utilizing Ohm's Law and focuses upon the use of electronic instrumentation and design using operational amplifiers as "black box" building elements. In addition, the digital component of the course covers basic digital logic and its implementation in hardware using integrated circuit-based logic gates and counters. Includes a lab component.

EOPT 210 Detection and Measurement

2c-31-3cr

Prerequisites: [EOPT 120](#) and [125](#)

Covers electronic amplification, optical detectors, and the measurement of small distances using interference effects. Operational amplifiers are used to build circuits to measure the output of photon and thermal detectors. In order to accurately measure properties such as wavelengths, absorption of wavelengths, defects in lenses, prisms, and flat plates, the following instruments are used by the students: monochromators, spectrophotometers, and interferometers. Includes a lab component.

EOPT 220 Introduction to Lasers

2c-31-3cr

Prerequisite: [EOPT 120](#)

Different types of incoherent light sources are discussed and investigated. The concepts of laser safety are introduced. The elements and operation of an optical power meter are covered. The energy-level diagrams and the energy-transfer processes in the active medium are discussed. The spatial and temporal properties of lasers are investigated along with other characteristics such as modes of oscillation. Some applications of lasers are investigated. Includes a lab component.

EOPT 240 Fiber Optics

2c-31-3cr

Prerequisite: [EOPT 120](#)

Covers basic concepts in fiber optics such as dispersion, attenuation, and single-mode and multimode propagation. Fiber optic test equipment such as optical time domain reflectometers and optical power meters is discussed and investigated. Sources, detectors, and optical amplifiers are covered. Includes a lab component.

EOPT 250 High-Vacuum Technology

2c-31-3cr

Prerequisite: [PHYS 116](#)

Teaches how to produce and measure a vacuum. Presents the properties of gases and the concepts of fluid flow and pumping. Many different kinds of vacuum pumps are discussed in detail. The concept of measuring a vacuum is introduced through the discussion of vacuum gauges and gas analyzers. Covers the techniques of leak detection and thin film deposition. The concept of ultrahigh vacuum is touched upon. Includes a lab component.

EOPT 260 Industrial Applications of Lasers

2c-31-3cr

Prerequisite: [EOPT 220](#)

Laser power and energy measurements are made. The theory and applications of industrial lasers are covered. Material processing such as welding, cutting, and hole drilling will be discussed, implemented, and analyzed. The role of optics in laser machining is covered. Laser safety is emphasized. Includes a lab component.

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Elementary Education (ELED)

Professional Studies in Education College of Education and Educational Technology

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

ELED 110 Pathways to Teaching
ELED 211 Music for the Elementary Grades
ELED 213 Art for the Elementary Grades
ELED 215 Child Development
ELED 221 Children's Literature
ELED 222 Reading for the Elementary School
ELED 257 Pedagogy I
ELED 281 Special Topics
ELED 312 Teaching of Elementary Science
ELED 313 Teaching Mathematics in the Elementary School
ELED 314 Teaching of Health and Physical Education
ELED 351 Creative Activities in the Elementary School
ELED 357 Pedagogy II
ELED 411 Teaching of Social Studies
ELED 422 Diagnostic and Remedial Reading
ELED 425 Language Arts Across the Curriculum
ELED 481 Special Topics
ELED 482 Independent Study

Note: Courses in Elementary Education are restricted to majors, except with departmental permission.

ELED 110 Pathways to Teaching

1c-0l-1cr

Prerequisite: Freshmen with declared major of Elementary Education or Early Childhood Education/PreK-Grade 6 or instructor permission
An orientation to the profession of teaching for incoming freshman majors. Enhances awareness of the skills, attitudes, and behaviors majors need for success as university students and as elementary and early childhood educators. In light of the increasing complexity of the teaching profession, familiarizes students with the program options and career-enhancing specializations available to them through the Professional Studies in Education Department. Introduces the Conceptual Framework of the College of Education and Educational Technology and provides knowledge about the foundational elements of Content, Collaboration, the Learner, Commitment, and Competence, which are regarded as crucial aspects of a professional identity for teaching.

ELED 211 Music for the Elementary Grades

2c-0l-2cr

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-01-2cr

The creative use of art materials and an understanding of development of capacities of children through art.

ELED 215 Child Development

3c-01-3cr

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-01-3cr

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.

ELED 222 Reading for the Elementary School

3c-01-3cr

A systematic coverage of the teaching of reading, including methods, techniques, and materials.

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ELED 257 Pedagogy I

3c-01-3cr

Competencies specific to the science of teaching are introduced. Students become familiar with the fundamentals of teaching at the elementary level. Areas explored include models of teaching, including lesson and unit planning, and creating a classroom environment that is conducive to learning.

ELED 281 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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-01-2cr

Emphasizes science as it relates to child and curriculum, planning for teaching science, and recent innovations in science teaching. Offered on the junior block only.

ELED 313 Teaching Mathematics in the Elementary School

3c-01-3cr

Prerequisites: [MATH 151](#), [152](#), [ELED 257](#)

Recent developments in curriculum and methods of instruction of contemporary elementary school mathematics programs. Students 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-01-2cr

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 351 Creative Activities in the Elementary School

3c-01-3cr

Provides a wide range of creative experiences in fields of art, crafts, music, rhythmic, 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-01-3cr

Prerequisite: Junior status

Principles based on classroom experience. Instruction includes 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. (Writing-intensive course)

ELED 411 Teaching of Social Studies

3c-01-3cr

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.

ELED 422 Diagnostic and Remedial Reading

3c-01-3cr

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-01-3cr

Prerequisite: [ELED 222](#)

Emphasizes 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 are presented. Special emphasis given to recent trends and research. (Writing-intensive course)

ELED 481 Special Topics

var-3cr

Prerequisite: Approval of instructor and department

Topics in education appropriate for the Elementary Education setting.

ELED 482 Independent Study

var-3cr

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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Environmental Health Science (ENVH)

Department of Biology
College of Natural Sciences and Mathematics

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

ENVH 221 Environmental Health and Protection I
ENVH 222 Environmental Health and Protection II
ENVH 281 Special Topics
ENVH 310 Applied Entomology and Zoonoses
ENVH 323 Introduction to Toxicology and Risk Assessment
ENVH 456 Ecological Toxicology
ENVH 460 Fundamentals of Environmental Epidemiology
ENVH 481 Special Topics
ENVH 482 Independent Study

ENVH 221 Environmental Health and Protection I

2c-3l-3cr

Prerequisites: [BIOL 104](#) or [112](#), [CHEM 102](#) or [112](#)

A survey of environmental disease hazards as they relate mostly to the outdoor environment. Environmental health and safety concerns are addressed from the standpoint of their source and nature, human and ecological effects, measurement, and control. (Offered as BIOL 321 prior to 2003-04)

ENVH 222 Environmental Health and Protection II

2c-3l-3cr

Prerequisites: [BIOL 104](#) or [112](#), [CHEM 102](#) or [112](#)

A survey of environmental disease hazards as they relate mostly to the indoor environment. Environmental health and safety concerns are addressed from the standpoint of their source and nature, human health effects, measurement, and control. (Offered as BIOL 322 prior to 2003-04)

ENVH 281 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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.

ENVH 310 Applied Entomology and Zoonoses

2c-3l-3cr

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; pesticing equipment; application of biological and other measures of control. (Also offered as [BIOL 310](#); may not be taken for duplicate credit)

ENVH 323 Introduction to Toxicology and Risk Assessment

3c-0l-3cr

Prerequisites: [BIOL 104](#) or [112](#), [CHEM 102](#) or [112](#); or permission

A study of uptake, distribution, metabolism, and excretion of environmental chemicals; mechanisms of their toxicity; and their effects on major organ systems. Knowledge of these topics is applied to risk assessment procedures. (Also offered as [BIOL 323](#); may not be taken for duplicate credit)

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ENVH 456 Ecological Toxicology

2c-3l-3cr

Prerequisites: [BIOL 112](#), [CHEM 112](#)

A study of the impact of chemical pollutants and other stresses on non-human biological systems from the subcellular to ecosystem levels. An ecological risk assessment will be conducted in the field and laboratory settings. (Also offered as [BIOL 456](#); may not be taken for duplicate credit)

ENVH 460 Fundamentals of Environmental Epidemiology

3c-0l-3cr

Prerequisites: [BIOL 104](#) or [112](#); [MATH 216](#) or [217](#); or instructor permission

A study of the health consequences of involuntary exposure to harmful chemical and biological agents in the general environment. Disease etiology, occurrence, and intervention in human populations are examined through epidemiologic study using analytical methods and applications. (Also offered as [BIOL 460](#); may not be taken for duplicate credit)

ENVH 481 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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.

ENVH 482 Independent Study

var-1-3cr

Prerequisites: 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 faculty member but does not involve regular class or laboratory hours.

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Family and Consumer Sciences Education (FCSE)

Department of Human Development and Environmental Studies
College of Health and Human Services

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

FCSE 281 Special Topics
FCSE 350 Teaching Family Life Education
FCSE 450 Teaching Vocational and Family Consumer Sciences Education
FCSE 481 Special Topics
FCSE 482 Independent Study

FCSE 281 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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-0l-3cr

Prerequisites: [EDUC 242](#)

Corequisite: [EDSP 102](#)

Emphasizes 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 and Family Consumer Sciences Education

3c-0l-3cr

Prerequisite: [FCSE 350](#)

Emphasizes 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. Emphasizes 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-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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-1-3cr

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 3cr. Approval is based on academic appropriateness and availability of resources.

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Gerontology (GERN)

Department of Nursing and Allied Health Professions
College of Health and Human Services

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

GERN 281 Special Topics
GERN 481 Special Topics
GERN 482 Independent Study
GERN 493 Internship

GERN 281 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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-1-3cr

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.

GERN 493 Internship

3cr

Prerequisites: Senior standing, all required courses

Supervised experience in public or private agency that serves aging clients.

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Honors Business (HBUS)

Eberly College of Business and Information Technology

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

HBUS 101 Contemporary Business Issues

3c-0l-3cr

Prerequisite: Admission to College of Business Honors Program

An honors-level course in the Eberly College of Business and Information Technology enables eligible students to participate in advanced study in the freshman year. Provides the foundation of the integrative nature of the college's majors by including seminar meetings discussing contemporary business issues with local, regional, and national alumni business leaders; research mentoring with college faculty and businesspeople; opportunities to provide service to the college, university, and the community; and the beginning of an electronic portfolio. Serves as the introduction to the college's honors program that also includes a sophomore cluster, an honors junior block, and an honors senior capstone course.

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Honors College (HNRC)

Robert E. Cook Honors College Academic Affairs Division

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

HNRC 101 Honors Core I
HNRC 102 Honors Core II
HNRC 201 Honors Core III
HNRC 202 Honors Core: Sciences
HNRC 483 Honors Thesis
HNRC 499 Honors Senior Synthesis

HNRC 101 Honors Core I

5c-0l-5cr

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.

HNRC 102 Honors Core II

5c-0l-5cr

Prerequisites: [HNRC 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 become more critical and analytical in their reading and response. Further, the ability to synthesize is emphasized based on their previous readings and learning experiences.

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HNRC 201 Honors Core III

4c-0l-4cr

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; major ideas in history, philosophy, religious studies, literature, and the fine arts; and critical thinking skills used in reading, writing, and discussion in an integrated and interactive pedagogical environment.

HNRC 202 Honors Core: Sciences

4c-0l-4cr

Prerequisites: [HNRC 101](#), [102](#), sophomore standing, admission to Honors College

Concerned with science as a way of knowing about the world. Focuses on what scientists have learned about what it means to be human, how humans have been shaped by and, in turn, have influenced their environment, and on what use might be made of scientific knowledge. These themes are explored from disciplines in the natural and social sciences.

HNRC 483 Honors Thesis

var-1-6cr

Prerequisites: Honors College student in good standing; at least junior status at time topic is proposed. Prior approval through advisor, faculty members, department chairperson, dean, and Provost's Office

An intensive, focused study involving independent research within the student's major discipline culminating in a written thesis approved by a thesis director and two faculty readers/committee members. May be taken more than once to a maximum of 6cr. Approval is based on academic appropriateness and availability of resources.

HNRC 499 Honors Senior Synthesis

var-3-6cr

Prerequisites: 3.25 GPA, Honors College good standing or instructor permission, 73 or more credits earned

Concluding crossdisciplinary Honors College experience, focused on the question "What are the obligations of the educated citizen?" Helps students understand and handle complex intellectual issues from multiple perspectives. A selection of topics is announced and described in the undergraduate course schedule. Substitutes for [LBST 499](#).

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Hotel, Restaurant, and Institutional Management (HRIM)

Department of Hospitality Management
College of Health and Human Services

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

HRIM 101 Introduction to the Hospitality Industry	HRIM 350 Introduction to the Casino Industry
HRIM 115 Introduction to Tourism	HRIM 358 Food Service Equipment and Facilities Design
HRIM 130 Hospitality Sanitation and Security	HRIM 365 Hotel Facilities Management
HRIM 150 Principles of Hospitality Management	HRIM 400 Restaurant Revenue Management
HRIM 245 Diversity and Multicultural Management in the Hospitality Industry	HRIM 402 Beverage Management
HRIM 256 Human Resources in the Hospitality Industry	HRIM 403 Wine and Wine Service
HRIM 259 Hospitality Purchasing	HRIM 406 Catering and Banquet Management
HRIM 260 Hotel Rooms Division Management	HRIM 408 Institutions Management
HRIM 265 Hospitality Cost Management	HRIM 411 Seminar in Hospitality Management
HRIM 281 Special Topics	HRIM 413 Advanced Food Production and Service
HRIM 299 Cooperative Education (First Experience)	HRIM 420 Hotel Sales
HRIM 310 Professional Development in the Hospitality Industry	HRIM 433 Educational Study Tour
HRIM 313 Food Production and Service	HRIM 470 Hospitality Business Model
HRIM 320 Hospitality Marketing	HRIM 481 Special Topics
HRIM 330 Applications of Food Production and Service	HRIM 482 Independent Study in Hospitality Management
HRIM 335 Legal Issues in Hospitality	HRIM 493 Internship

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.

HRIM 101 Introduction to the Hospitality Industry

3c-0l-3cr

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-0l-3cr

Introduces concepts pertaining to international and domestic tourism. Examines the economic, social, and cultural aspects of tourism as well as how destinations are marketed.

HRIM 130 Hospitality Sanitation and Security

3c-0l-3cr

Introduces concepts and issues pertaining to sanitation and security management in the hospitality industry. Examines causes and prevention of food-borne illness, Hazard Analysis Critical Control Point food production methods, and current government regulations. Special emphasis is on

crisis management protocols dealing with critical incidents involving guests and employees. Prepares students for taking the National Restaurant Association ServSafe sanitation certification examination.

HRIM 150 Principles of Hospitality Management

3c-01-3cr

Introduces classic management theory and responsibilities, with an emphasis on hospitality industry applications.

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HRIM 245 Diversity and Multicultural Management in the Hospitality Industry

3c-01-3cr

Prerequisite: Sophomore standing

Explores what happens when diverse people work together in the hospitality industry. Also examines 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. Also focuses on the cultural factors affecting productivity in the culturally diverse hospitality environment.

HRIM 256 Human Resources in the Hospitality Industry

3c-01-3cr

Prerequisite: [HRIM 150](#) or Food and Nutrition major

Examines human resources management in the hospitality industry. Topics include cultural diversity, legal requirements, job analysis, recruitment and selection, training and development, performance appraisal, compensation, and benefits administration.

HRIM 259 Hospitality Purchasing

3c-01-3cr

Prerequisite: [FDNT 150](#) or equivalent

Includes sources, standards, grades, methods of purchase, and storage of various foods, beverages, and fixtures. Emphasizes the development of purchasing policies and specifications.

HRIM 260 Hotel Rooms Division Management

3c-01-3cr

Prerequisites: [HRIM 101](#), [150](#)

Examines work areas, functions, and relationships pertaining to the rooms division components of a hotel or resort. Areas of concentration include front office, housekeeping, maintenance, uniformed service, security, sales, recreation, and other relevant operations components. Elements of guestroom layout and design are also discussed. (Titled Hotel Systems Management prior to 2005-06)

HRIM 265 Hospitality Cost Management

3c-01-3cr

Prerequisite: [ACCT 201](#)

Identifies and analyzes the control of hospitality operation costs, including those in the areas of food, beverage, labor, and material and compares those costs to industry norms. Students analyze income statements and balance sheets. (Offered as HRIM 401 prior to 2003-04)

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HRIM 281 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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)

0cr

Prerequisites: Completion of 30cr, 2.0 GPA

A semester-long program designed to combine classroom theory with practical application through job-related experiences. Student required to complete two alternating experiences; only one may be a summer experience.

HRIM 310 Professional Development in the Hospitality Industry

2c-01-2cr

Prerequisite: [HRIM 256](#)

Provides an opportunity to identify and design industry-specific job search strategies, techniques, and skills including resume and cover letter writing, interviewing, portfolio development, and strategies to attain career success within the hospitality industry.

HRIM 313 Food Production and Service

1c-6l-4cr

Prerequisites: [HRIM 130](#), [150](#), and instructor permission

Introduces the management of food service operations in commercial kitchen facilities. Includes planning, preparation, and service of quantity food production. Emphasizes the integration of sanitation, menu planning, cost controls, and application of computer software.

HRIM 320 Hospitality Marketing

3c-0l-3cr

Prerequisite: [HRIM 256](#)

Students gain an understanding of the principles and concepts of marketing as they apply to hospitality management. Analyzes consumer behavior related to the hospitality industry. Students learn to make effective marketing decisions as they apply to customer satisfaction.

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HRIM 330 Applications of Food Production and Service

1c-6l-4cr

Prerequisite: [HRIM 313](#) or [FDNT 150/151](#)

Provides training for the hospitality management student in advanced fundamentals of technique, timing, and management skills through laboratory experiences, as well as the operation of the Allenwood Restaurant facility.

HRIM 335 Legal Issues in Hospitality

3c-0l-3cr

Prerequisite: [HRIM 256](#)

Examines the concepts and issues pertaining to hotel and restaurant law, government regulations, and their impact on the hospitality industry. A special emphasis is on innkeeper-guest relationship, employee relations, food laws and liability, liquor law and liability, and guest rights.

HRIM 350 Introduction to the Casino Industry

3c-0l-3cr

Prerequisite: Sophomore standing or instructor permission

Introduces the multibillion-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 is devoted to the growth of casinos on cruise ships, on Native American reservations, and on riverboats in the United States. 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 358 Food Service Equipment and Facilities Design

3c-0l-3cr

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.

HRIM 365 Hotel Facilities Management

3c-0l-3cr

Prerequisite: [HRIM 101](#)

Analyzes principles of hotel design, construction, and physical plant management. Housekeeping and maintenance department operations are discussed.

HRIM 400 Restaurant Revenue Management

3c-0l-3cr

Prerequisite: [HRIM 265](#)

Promotes an understanding of the management of revenue in restaurant operations through the application of analytical tools to formulate and implement strategies in response to daily operational complexities and constraints to achieve budgetary objectives.

HRIM 402 Beverage Management

3c-0l-3cr

Prerequisite: 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.

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HRIM 403 Wine and Wine Service

3c-0l-3cr

Prerequisite: All students must be 21 years of age or older

A study of the wine-growing regions, production, processing, and distribution of domestic and international wines. Topics include types of wine grapes, varieties of wine, proper storage procedures, the techniques of proper wine service, and responsible alcohol service.

HRIM 406 Catering and Banquet Management

var-3cr

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-0l-3cr

Prerequisites: [ACCT 201](#), [HRIM 313](#), 326, 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-0l-3cr

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. (Writing-intensive course)

HRIM 413 Advanced Food Production and Service

1c-6l-4cr

Prerequisites: [HRIM 330](#) and permission

A food and beverage systems course emphasizing restaurant front- and back-of-the-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-0l-3cr

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 are covered.

HRIM 433 Educational Study Tour

var-2-6cr

A comprehensive program of directed activities permits firsthand experiences in the historical and cultural aspects of the hospitality industry worldwide. Visits to renowned operations are included in the tour.

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HRIM 470 Hospitality Business Model

3c-0l-3cr

Prerequisites: Senior status and instructor permission

Provides the opportunity to integrate and apply hospitality operations management concepts into the development of a working hospitality business model.

HRIM 481 Special Topics

var-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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-1-6cr

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 60cr earned.

HRIM 493 Internship

var-3-12cr

Prerequisites: 57cr earned, 2.0 GPA, and completion of an approved 400-hour pre-Internship experience

An opportunity to work in a supervised experience directly related to the Hospitality Management major. Must meet university and departmental internship requirements. Minimum of 400 hours required.

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Industrial and Labor Relations (ILR)

Department of Industrial and Labor Relations
College of Health and Human Services

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

ILR 281 Special Topics
ILR 426 Case Studies in Labor-Management Relations
ILR 480 Principles and Practices of Collective Bargaining
ILR 481 Special Topics in Industrial and Labor Relations
ILR 482 Independent Study
ILR 499 Independent Study

ILR 281 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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-0l-3cr

An 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.

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ILR 480 Principles and Practices of Collective Bargaining

3c-0l-3cr

An examination of the historical, legal, and functional parameters of collective bargaining. Topics include the organizing process, negotiations, contract administration, dispute resolution, and public sector labor relations.

ILR 481 Special Topics in Industrial and Labor Relations

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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-1-3cr

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-1-3cr

Independent reading and research under the direction of a faculty member.

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Interior Design (INDS)

Department of Human Development and Environmental Studies
College of Health and Human Services

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

INDS 105 Introduction to Interior Design	INDS 313 Materials and Finishes
INDS 118 Drafting for Construction I	INDS 315 Residential Design I
INDS 205 Color Theory and Application	INDS 319 Residential Design II: Kitchen, Bath, Media Room Design
INDS 213 Residential Appliances and Consumer Electronics	INDS 370 Development of Design I
INDS 218 Drafting for Construction II	INDS 380 Development of Design II
INDS 230 Presentation for Interior Design	INDS 405 Interior Design Professional Practice
INDS 240 Three-Dimensional Design for Interior Design	INDS 433 Study Tour
INDS 281 Special Topics	INDS 464 Contract Design I
INDS 305 Interior Lighting	INDS 465 Contract Design II
INDS 310 Human Factors in Interior Design	INDS 481 Special Topics
INDS 312 Housing and Culture	INDS 482 Independent Study

INDS 105 Introduction to Interior Design

3c-0l-3cr

Presents an overview of interior design, including an introduction to design, selection, and application of components in the interior environment. Emphasizes development of effective design problem-solving skills.

INDS 118 Drafting for Construction I

1c-3l-3cr

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.

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INDS 205 Color Theory and Application

3c-0l-3cr

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.

INDS 213 Residential Appliances and Consumer Electronics

2c-2l-3cr

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.

INDS 218 Drafting for Construction II

1c-3l-3cr

Prerequisite: [INDS 118](#)

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 230 Presentation for Interior Design

1c-3l-3cr

Prerequisite: [INDS 118](#)

A studio, project-based, course introducing visualization approaches used for design criticism and professional presentations of interior design. Focuses on three-dimensional drawing, including perspective, isometric, and section drawings as well as the use of color to create depth and understanding of two-dimensional drawings.

INDS 240 Three-Dimensional Design for Interior Design

1c-3l-3cr

Prerequisite: [INDS 118](#)

An introduction to three-dimensional design thinking and presentation. Exploratory exercises strengthen three-dimensional conceptual skills of interior space. Technical studies investigate presentation techniques, model-making, spatial theory analysis, and vocabulary.

INDS 281 Special Topics

3c-0l-3cr

Prerequisite: As appropriate to course content

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-0l-3cr

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.

INDS 310 Human Factors in Interior Design

3c-0l-3cr

Prerequisite: Junior standing

The study of human and technology systems interface as related to interior design. Emphasizes ergonomic and economic decision making to insure that the user can function with a minimum of stress and a maximum of efficiency.

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INDS 312 Housing and Culture

3c-0l-3cr

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.

INDS 313 Materials and Finishes

3c-0l-3cr

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-3l-3cr

Prerequisite: [INDS 218](#)

Applies interior design space planning and design problem-solving processes to residential design and emphasizes graphic communication and presentation of solutions.

INDS 319 Residential Design II: Kitchen, Bath, Media Room Design

1c-3l-3cr

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 are addressed.

INDS 370 Development of Design I

3c-01-3cr

A chronological study from ancient times to the mid-nineteenth century of the dominant influences and characteristics of historical interiors, furniture, and ornamental design. Emphasizes stylistic detail and its relationship to social, economic, political, religious, and aesthetic influence and to the contemporary scene.

INDS 380 Development of Design II

3c-01-3cr

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. Emphasizes stylistic detail and its relationship to social, economic, political, religious, and aesthetic influences and to contemporary usage.

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INDS 405 Interior Design Professional Practice

3c-01-3cr

Prerequisite: Junior standing

Planning, business organization, management, contracts, procedures, and ethics for the professional interior designer.

INDS 433 Study Tour

var-1-6cr

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 6cr. (Cross-listed as [CNSV/FSMR 433](#).)

INDS 464 Contract Design I

1c-31-3cr

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.

INDS 465 Contract Design II

1c-31-3cr

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-01-3cr

Prerequisite: As appropriate to course content

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 1-3cr

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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Marine Science (MRSC)

Marine Science Consortium/Biology Department
College of Natural Sciences and Mathematics

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

MRSC 110 Introduction to Oceanography	MRSC 343 Marine Ichthyology
MRSC 211 Field Methods in Oceanography	MRSC 344 Anatomy of Marine Chordates
MRSC 212 Navigation	MRSC 345 Marine Ornithology
MRSC 221 Marine Invertebrate Zoology	MRSC 362 Marine Geology
MRSC 241 Marine Biology	MRSC 364 Physical Oceanography
MRSC 250 Management of Wetland Wildlife	MRSC 420 Marine Micropaleontology
MRSC 260 Marine Ecology	MRSC 431 Ecology of Marine Plankton
MRSC 270 Scuba Diving	MRSC 459 Coastal Geomorphology
MRSC 280 Marine Field Biology	MRSC 481 Special Topics
MRSC 281 Special Topics	MRSC 482 Independent Study
MRSC 331 Chemical Oceanography	MRSC 500 Problems in Marine Science
MRSC 342 Marine Botany	

IUP is not currently a member institution; students may register for courses offered through the Marine Science Consortium through any participating institution. For a listing, see www.msconsortium.org/Welcome.htm.

MRSC 110 Introduction to Oceanography

var-3cr

An introduction to physical, chemical, biological, and geological aspects of oceans and methods and techniques of oceanography. Lab emphasis on at-sea assignments.

MRSC 211 Field Methods in Oceanography

var-3cr

Prerequisite: MRSC 110 or instructor permission

A familiarization with dynamic marine environment involving use and application of oceanographic instruments and sampling devices.

MRSC 212 Navigation

var-3cr

Prerequisite: Four years' high school math or equivalent or instructor permission

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; and 3) navigation in the open sea, including electronic navigation methods.

MRSC 221 Marine Invertebrate Zoology

var-3cr

Prerequisite: One year of Biology or instructor permission

A study of marine invertebrates with emphasis on development, reproduction, structure, function, and classification of selected marine organisms.

MRSC 241 Marine Biology

var-3cr

Prerequisites: Botany and zoology or instructor permission

A study of plant and animal life in marine environment with emphasis on physical and chemical factors affecting biota.

MRSC 250 Management of Wetland Wildlife

var-3cr

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-3cr

Prerequisite: One year of biology or instructor permission

A course in ecology of marine organisms.

MRSC 270 Scuba Diving

var-3cr

Prerequisites: Swimming ability and good health (a standard diving physical form will be mailed to students electing the course)

Students who complete course receive a National Association of Underwater Instructors Diver Certificate.

MRSC 280 Marine Field Biology

var-3cr

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.

MRSC 281 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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-3cr

Prerequisites: [MRSC 110](#) and one year of Chemistry

Treatment of oceanic chemical phenomena by sampling and laboratory analysis techniques.

MRSC 342 Marine Botany

var-3cr

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.

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MRSC 343 Marine Ichthyology

var-3cr

Prerequisites: General Biology and/or instructor permission

A study of fishes. Specimens collected along Eastern Seaboard by students are used to illustrate anatomy, physiology, and systematics of this major vertebrate group. Field collections give student opportunity to observe relationships of these animals to the biotic and physical environment.

MRSC 344 Anatomy of Marine Chordates

var-3cr

Prerequisites: 6cr of Biology including General Zoology

Designed to familiarize students with various aspects of marine chordates.

MRSC 345 Marine Ornithology

var-3cr

Prerequisite: One year of Biology or instructor permission

Introduces avian fauna of seacoast and enables comparison with inland species. In addition to field work providing visual and vocal identification, lecture material includes information on distribution, behavior, physiology, and anatomy of birds.

MRSC 362 Marine Geology

var-3cr

Prerequisites: [MRSC 110](#) and Physical Geology or instructor permission

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.

MRSC 364 Physical Oceanography

var-3cr

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-3cr

Prerequisites: One year of Geology and Biology or instructor permission

Deals with modern, living representatives of microorganisms important in fossil record with particular emphasis on taxonomy, morphology, evolution, and ecologic affinities of representative groups.

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MRSC 431 Ecology of Marine Plankton

var-3cr

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.

MRSC 459 Coastal Geomorphology

var-3cr

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. Participates in field studies of Pleistocene deposits and the weathering of these deposits.

MRSC 481 Special Topics

var-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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-1-3cr

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.

MRSC 500 Problems in Marine Science

var-3cr

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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Nanomanufacturing Technology (NMTT)

Department of Physics
College of Natural Sciences and Mathematics

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

NMTT 311 Materials, Safety, and Equipment Overview for Nanofabrication
NMTT 312 Basic Nanofabrication Processes
NMTT 313 Thin Films in Nanofabrication
NMTT 314 Lithography and Patterning Techniques
NMTT 315 Materials Modifications in Nanofabrication
NMTT 316 Characterization, Packaging, and Testing of Nanofabrication Structures

NMTT 311 Materials, Safety, and Equipment Overview for Nanofabrication

3c-2l-3cr

Corequisite: [NMTT 312](#)

Focuses on cleanroom protocol and provides an overview of the materials, safety, and equipment issues encountered in the practice of “top down” and “bottom up” nanofabrication.

NMTT 312 Basic Nanofabrication Processes

3c-2l-3cr

Corequisite: [NMTT 311](#)

A hands-on introduction to the processing sequences involved in “top down,” “bottom up,” and hybrid nanofabrication. Focuses on a step-by-step description of the processes integration needed to fabricate devices and structures.

NMTT 313 Thin Films in Nanofabrication

3c-2l-3cr

Corequisites: [NMTT 311](#) and [312](#)

Provides a detailed understanding of the use and processing of thin film materials in nanofabrication. Emphasizes the understanding and operation of the state-of-the-art deposition and etching processing equipment in the PSU Nanofabrication Facility cleanrooms.

NMTT 314 Lithography and Patterning Techniques

3c-2l-3cr

Corequisite: [NMTT 311](#)

Provides knowledge and hands-on treatment to all aspects of advanced lithography and pattern generation processes, covering topics from substrate preparation to exposure using pattern transfer equipment such as stamping and embossing, ion and e-beam, and optical contact and stepper.

NMTT 315 Materials Modifications in Nanofabrication

3c-2l-3cr

Corequisite: [NMTT 311](#)

Provides detailed knowledge of the processing steps used in modifying material properties in nanofabrication including molecular functionalization, cross-linking, metal silicidation, material oxidation, material nitridation, barrier materials, alloying, stress control, annealing, and doping.

NMTT 316 Characterization, Packaging, and Testing of Nanofabrication Structures

3c-21-3cr

Corequisite: [NMTT 311](#)

Addresses the issues and examines a variety of techniques and measurements essential for testing and controlling the final device fabrication, performance, and packaging.

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Nuclear Medicine Technology (NMDT)

Department of Nursing and Allied Health Professions
College of Health and Human Services

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

NMDT 427 Nuclear Scintigraphy
NMDT 428 Radiation Physics
NMDT 429 Nuclear Medicine Instrumentation
NMDT 430 Radiation Biology and Radiation Protection
NMDT 431 In Vivo/In Vitro NonImaging
NMDT 432 Radiopharmaceuticals
NMDT 433 Introduction to Tomographic Imaging
NMDT 434 Clinical Nuclear Medicine

NMDT 427 Nuclear Scintigraphy

3c-0l-3cr

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-0l-3cr

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-1l-3cr

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-0l-2cr

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 NonImaging

1c-0l-1cr

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-01-3cr

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.

NMDT 433 Introduction to Tomographic Imaging

1c-01-1cr

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-401-16cr

Prerequisites: Completion of 77cr at IUP and Phase I at NMI

Complete 1,320 hours of supervised clinical training at an affiliate hospital. Gives instruction and participates 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. Develops both technical skills and interpersonal communication skills for incorporation into the medical community and to provide high-quality patient care. Offered on a pass/fail basis only.

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Real Estate (REAL)

Department of Finance and Legal Studies
Eberly College of Business and Information Technology

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

Note: Except for Accounting, Business Education, and nonbusiness majors who have met the required prerequisites, students scheduling 300 and 400 courses are expected to have achieved junior standing as described in the Eberly College of Business and Information Technology Academic Policies.

REAL 382 Real Estate Fundamentals

3c-0l-3cr

Acquaints the student with the language, principles, and laws that govern the business of real estate. Emphasizes 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.

REAL 383 Real Estate Practice

3c-0l-3cr

Prerequisite: [REAL 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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Regional Planning (RGPL)

Department of Geography and Regional Planning
College of Humanities and Social Sciences

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

RGPL 213 Cartography I	RGPL 415 Remote Sensing
RGPL 281 Special Topics	RGPL 417 Technical Issues in GIS
RGPL 313 Cartography II	RGPL 421 Regional GIS Management
RGPL 314 Map and Photograph Interpretation	RGPL 454 Planning Design II
RGPL 316 Introduction to Geographic Information Systems	RGPL 458 Land Use Law
RGPL 332 Urban Geography	RGPL 464 Land Use Policy
RGPL 333 Trade and Transportation	RGPL 468 Planning Theory
RGPL 345 Biogeography for Environmental Managers	RGPL 481 Special Topics
RGPL 350 Introduction to Planning	RGPL 482 Independent Study
RGPL 352 Planning Methods	RGPL 483 Honors Thesis
RGPL 353 Planning Design I	RGPL 493 Internship
RGPL 412 Research Seminar	

RGPL 213 Cartography I

3c-0l-3cr

Introduces principles of thematic map construction. Emphasizes 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-0l-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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-0l-3cr

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 [GEOG 313](#); may not be taken for duplicate credit)

RGPL 314 Map and Photograph Interpretation

3c-0l-3cr

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-01-3cr

Prerequisite: [RGPL 213](#), or equivalent, or instructor permission

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)

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RGPL 332 Urban Geography

3c-01-3cr

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)

RGPL 333 Trade and Transportation

3c-01-3cr

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 345 Biogeography for Environmental Managers

3c-01-3cr

Prerequisite: One of the following: [GEOG 341](#), [342](#), [BIOL 103](#), [112](#), [115](#)

Examines the distribution of plants and animals across the earth's surface, as influenced by natural and human processes. Emphasizes landscape and regional habitat dynamics as they relate to environmental planning and management. Field trips supplement lectures and readings. (Also offered as [GEOG 345](#); may not be taken for duplicate credit)

RGPL 350 Introduction to Planning

3c-01-3cr

An introduction to the profession and activity of contemporary American urban and regional planning. Emphasizes land use control, design, growth management, and development regulation. The legal and institutional bases of planning practice are covered as well.

RGPL 352 Planning Methods

3c-01-3cr

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)

RGPL 353 Planning Design I

3c-01-3cr

Introduces professional graphic communications. Emphasizes the use of 2-D Computer Aided Design (CAD) applications, plan graphics, and professional standards to represent and solve basic physical planning problems.

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RGPL 412 Research Seminar

3c-01-3cr

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)

RGPL 415 Remote Sensing

3c-01-3cr

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 [GEOG 415](#); may not be taken for duplicate credit)

RGPL 417 Technical Issues in GIS

3c-01-3cr

Prerequisite: [RGPL 316](#)

A project-based class in which students learn the skills to develop and maintain a Geographic Information System. Through cooperative learning, they 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 421 Regional GIS Management

3c-0l-3cr

Prerequisite: [RGPL 417](#) or instructor permission

Principles and methods for creating, operating, maintaining, and managing data for multi-user geospatial information systems are studied. Each student will customize, document, and operate a multi-user geographic information system of their design. (Also offered as [GEOG 421](#); may not be taken for duplicate credit.)

RGPL 454 Planning Design II

3c-0l-3cr

Prerequisites: [RGPL 350](#), [353](#) or instructor permission

Introduces 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.

RGPL 458 Land Use Law

3c-0l-3cr

Prerequisite: [RGPL 350](#)

Introduces 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-0l-3cr

Prerequisite: [RGPL 350](#)

Introduces and provides an overview of land use issues at the regional, state, and federal levels. Emphasizes 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-0l-3cr

Prerequisites: [RGPL 350](#), [352](#), [454](#), or instructor permission

A seminar on contemporary debates concerning planning traditions, principles, and practices. The activity of planning is investigated from several theoretical frames and analytic positions.

RGPL 481 Special Topics

3c-0l-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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-1-3cr

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.

RGPL 483 Honors Thesis

var-1-6cr

Prerequisites: Admission to departmental honors program; prior approval through advisor, faculty member, department chairperson, dean, and Provost's Office

An intensive, focused study involving independent research culminating in a written thesis approved by a thesis director and two faculty readers/committee members. May be taken more than once to a maximum of 6cr.

RGPL 493 Internship

var-1-12cr

A professional learning experience with emphasis on application of academic background. Open to majors and minors in regional planning with a total of 57cr and 15cr in the major. See internship supervisor for additional information.

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Respiratory Care (RESP)

Department of Nursing and Allied Health Professions
College of Health and Human Services

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

RESP 101 The Profession of Respiratory Care	RESP 425 Clinical Case Studies
RESP 326 Respiratory Care Clinical Practice I	RESP 426 Respiratory Care Clinical Practice III
RESP 327 Pharmacology	RESP 428 Essentials of Electrocardiography
RESP 328 Introduction to Respiratory Care	RESP 429 Design and Function of a Respiratory Care Program
RESP 329 Respiratory Care Equipment	RESP 430 Pulmonary Function Studies
RESP 330 Cardiopulmonary Resuscitation	RESP 431 Pediatric Respiratory Care
RESP 333 Respiratory Care Clinical Practice II	RESP 433 Respiratory Care Clinical Practice IV
RESP 334 Respiratory Care Instrumentation and Application	RESP 434 Neonatal Respiratory Care
RESP 335 Patient Care Skills	RESP 436 Respiratory Care Teaching
RESP 336 Cardiopulmonary Evaluation and Clinical Correlation	RESP 437 Methods in Critical Care
RESP 337 Introduction to Pulmonary Function Studies	RESP 438 Cardiopulmonary Rehabilitation
RESP 342 Preceptorship in Respiratory Care	RESP 481 Special Topics

RESP 101 The Profession of Respiratory Care

1c-0l-1cr

Introduces the health care environment and specifically the respiratory care profession. Students visit a hospital respiratory care department and observe basic respiratory patient care procedures.

RESP 326 Respiratory Care Clinical Practice I

var-3cr

First exposure to patient care. An introduction to and practice of basic respiratory care treatment modalities.

RESP 327 Pharmacology

3c-0l-3cr

An introduction to pharmacology and therapeutics. Emphasizes the drugs used in respiratory care. Drug classification, action, usage, dosage, and availability are discussed.

RESP 328 Introduction to Respiratory Care

4c-0l-4cr

Topics include medical terminology and an overview of cellular structure and function. Emphasizes neurophysiology, respiratory anatomy, and physiology.

RESP 329 Respiratory Care Equipment

4c-0l-4cr

An introduction to respiratory therapy equipment, related procedures and principles, techniques and theory of mechanical ventilation. Special emphasis is given to oxygen delivery systems and the rationale for their use.

RESP 330 Cardiopulmonary Resuscitation

2c-01-2cr

A comprehensive analysis of the principles and practices of numerous methods of resuscitation.

RESP 333 Respiratory Care Clinical Practice II

var-3cr

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.

RESP 334 Respiratory Care Instrumentation and Application

4c-01-4cr

Provides a comprehensive knowledge of mechanical ventilation. The care of critically ill and physiologic consequences of mechanical ventilation will be discussed.

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RESP 335 Patient Care Skills

3c-01-3cr

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-01-4cr

Disease states of the pulmonary and related systems are investigated in progression from etiology through treatment and prognosis.

RESP 337 Introduction to Pulmonary Function Studies

1c-01-1cr

Introduces 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-01-1cr

Prerequisites: [RESP 326](#), [328](#), [329](#), [330](#), permission

An opportunity to gain additional clinical experiences in a supervised health care setting. Participants must meet university and sponsoring preceptorship requirements. May be repeated for a maximum of 5cr. A minimum of 40 hours is required for each credit.

RESP 425 Clinical Case Studies

3c-01-3cr

Increases the working knowledge of disease states commonly experienced by patients in the critical care setting. Emphasizes recognition and treatment of various disease states. Methods for evaluation and treatment of clinical oxygenation disturbances and acid-base disorders are explored. Clinical simulations, case studies, and patient management problems reviewed and discussed. Emphasizes appropriate information-gathering and decision-making techniques.

RESP 426 Respiratory Care Clinical Practice III

var-4cr

Respiratory care treatment procedures are continued with emphasis on improving proficiency and refining skills in adult general and critical care areas. Focus is on advanced skills related to mechanical ventilation. Specialty rotations are continued.

RESP 428 Essentials of Electrocardiography

2c-01-2cr

Acquaints the student with basic principles in cardiac electrodiagnostics. Topics include the technique of ECG testing and fundamentals of ECG arrhythmia recognition.

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RESP 429 Design and Function of a Respiratory Care Program

2c-01-2cr

Basic management principles as they apply to the hospital setting; in particular, respiratory care departments and schools are discussed.

RESP 430 Pulmonary Function Studies

3c-01-3cr

Prerequisite: [RESP 337](#)

Introduces 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.

RESP 431 Pediatric Respiratory Care

1c-01-1cr

Prerequisites: [RESP 334](#) and [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, and Abdominal and Chest Wall Defects.

RESP 433 Respiratory Care Clinical Practice IV

var-4cr

Respiratory care treatment procedures are continued with emphasis on functioning with greater independence and improving proficiency and refining skills in adult general and critical care areas. Experience in non-acute health care settings is included. Specialty rotations are continued. Provides opportunities to develop leadership skills.

RESP 434 Neonatal Respiratory Care

3c-01-3cr

Basic terminology, anatomy, and pathophysiology of obstetric, fetal, neonatal, and pediatric patients are presented.

RESP 436 Respiratory Care Teaching

2c-01-2cr

An introduction to respiratory education.

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RESP 437 Methods in Critical Care

2c-01-2cr

Critical Care diagnostic and therapeutic modalities pertinent to respiratory care are discussed. Topics include invasive and noninvasive cardiac monitoring, pulmonary monitoring, neurological assessment, ventilator commitment, and discontinuance.

RESP 438 Cardiopulmonary Rehabilitation

1c-01-1cr

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.

RESP 481 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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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Social Work (SOWK)

Department of Sociology
College of Humanities and Social Sciences

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

SOWK 238 Introduction to Social Work

3c-0l-3cr

Prerequisite: [ANTH 110](#) or [SOC 151](#)

An introduction to the dynamics of helping relationships.



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Speech Pathology and Audiology (SPLP)

Department of Special Education and Clinical Services
College of Education and Educational Technology

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

SPLP 111 Introduction to Communication Disorders	SPLP 334 Language Development
SPLP 122 Clinical Phonology	SPLP 342 Speech Science II
SPLP 222 Introduction to Audiology	SPLP 406 Articulation and Language Disorders
SPLP 242 Speech Science I	SPLP 408 Stuttering and Voice Disorders
SPLP 251 Anatomy and Physiology of the Speech and Hearing Mechanism	SPLP 412 Organization and Administration of Speech and Hearing Program
SPLP 254 Classroom Management of Language Disorders	SPLP 420 Speech Clinic
SPLP 281 Special Topics	SPLP 481 Special Topics
SPLP 311 Aural Rehabilitation	SPLP 482 Independent Study

SPLP 111 Introduction to Communication Disorders

3c-0l-3cr

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-0l-3cr

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-0l-3cr

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.

SPLP 242 Speech Science I

3c-0l-3cr

The study of the communication process with emphasis on physical characteristics of sound production, transmission and perception of the sound, and the evolution 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-0l-3cr

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-0l-3cr

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)

SPLP 281 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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-0l-3cr

Prerequisites: [SPLP 222](#), 3.0 GPA

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.

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SPLP 334 Language Development

3c-0l-3cr

Prerequisite: 3.0 GPA

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 evolution of sentences. Highlighting the neurological, social, and psychological bases of language development.

SPLP 342 Speech Science II

3c-0l-3cr

Prerequisites: [SPLP 242](#), 3.0 GPA

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-0l-3cr

Prerequisites: [SPLP 111](#), [242](#), [251](#), [334](#), 3.0 GPA

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-0l-3cr

Prerequisites: [SPLP 111](#), [242](#), [251](#), [334](#), 3.0 GPA

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.

SPLP 412 Organization and Administration of Speech and Hearing Program

3c-0l-3cr

Prerequisites: [SPLP 111](#), 3.0 GPA (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-1-3cr

Prerequisites: [EDUC 242](#), [342](#), GPA of 3.0 or better, 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.

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SPLP 481 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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.

SPLP 482 Independent Study

var-1-3cr

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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Universitywide Courses (UVWD)

Academic Affairs Division

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

UVWD 480 T.H.I.S. Seminar

3c-0l-3cr

An academic seminar taken at the Pennsylvania 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-12cr

A practical experience at the policymaking level of the state government that also requires a research project. 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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Directory

Note: All IUP personnel and students can be found in the online directory at <http://search.people.iup.edu>.

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IUP Council of Trustees	The Faculty
IUP President's Cabinet	Adjunct Faculty
Academic Affairs Division	<ul style="list-style-type: none">• Athletic Training/Sports Medicine• Clinical Laboratory Science• Nuclear Medicine Technology• Respiratory Care
Administration and Finance Division	
Institutional Advancement Division	
Student Affairs Division	

Chancellor of the State System of Higher Education

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Eugene F. Thibadeau, Ph.D., New York University

Professor, Foundations of Education

Gordon F. Thornton, Ph.D., The Ohio State University

Professor, Psychology

Sally W. Thornton, Ph.D., University of Pittsburgh

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Gwendolyn B. Torges-Hoffman, D.Phil., University of Arizona

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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

Marie E. Twal, D.P.H., University of Pittsburgh

Assistant Professor, Nursing and Allied Health

Mark G. Twiest, Ph.D., University of Georgia

Associate Professor, Professional Studies in Education

Meghan M. Twiest, Ed.D., University of Georgia

Professor, Professional Studies in Education

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Assistant Professor, Counseling

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Todd A. Van Wieren, M.A., University of Iowa
Instructor, Advising and Testing Center

Frank A. Viggiano, Jr., Ph.D., University of Pittsburgh
Professor, Human Development and Environmental Studies

Judith H. Villa, Ph.D., University of New Mexico
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Patricia E. Villalobos-Echeverria, M.F.A., West Virginia University
Professor, Art

Jana Lynn Villemain, Ph.D., Texas A & M University
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Larry A. Vold, Ph.D., University of Wisconsin
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Irene L. Wallaert, M.A., Northwest University
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Associate Professor, Nursing and Allied Health

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Medical Director, Cooperative Medical Technology Program of Akron, Children's Hospital Medical Center, Akron, Ohio

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Program Director, Clinical Laboratory Science Program, York Hospital
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Assistant Program Director, Nuclear Medicine Institute, University of Findlay

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Program Director, Nuclear Medicine Technology, Community College of Allegheny
County, Allegheny Campus

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IUP Sports Medicine Clinic

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Women's Studies Program

Interim Director: Chauna J. Craig

Website: www.iup.edu/womens

The Women's Studies minor is designed to examine the status and experiences of women from a multidisciplinary perspective. The courses use a variety of methods and disciplinary perspectives to explore the impact of gender on the experiences of the individual. Women's contributions to a variety of fields and the historical, literary, and cultural images of women are also addressed. Students are encouraged to challenge traditional theories and research regarding women and to develop a critical, multidisciplinary, multicultural, and gendered view of the world. Courses taught within the minor typically involve the students through innovative, experiential classroom exercises and written assignments. Courses in Women's Studies address social equity issues and encourage students to perceive themselves as capable of transforming society.

A minor in Women's Studies indicates to the prospective employer an awareness of and sensitivity to gender issues. This awareness may be needed in the following positions: personnel specialist, affirmative action officer, crisis intervention specialist, family and youth services provider, legal advocate. A minor in Women's Studies can contribute to success in a variety of fields including communication, counseling, criminology, education, health, journalism, law, politics, psychology, and applied sociology.

Students interested in attending graduate school will also find a minor in Women's Studies valuable for a variety of areas, including English, history, studies in the social sciences, and law school.

Minor–Women's Studies		15
Required Courses:		3
WMST 200	Introduction to Women's Studies	3cr
Students receive approval for a specified course of study from the following: (1)		12
ANTH 350	Anthropology of Women	3cr
CRIM 450	Women and Crime	3cr
ENGL 225	Introduction to Literature by Women	3cr
ENGL 336	Language, Gender, and Society	3cr
ENGL 385	Advanced Women's Literature	3cr
FRNC 301	Portraits of Women in the French Novel	3cr
HIST 366	African-American Women	3cr
HIST 369	Women in America	3cr
HIST 390	History of Women–World Cultures	3cr
JRNL 250	Women and the Press	3cr
PHIL 232	Philosophical Perspectives on Love, Marriage, and Divorce	3cr
PSYC 379	Psychology of Human Sexuality	3cr
PSYC 411	Psychology of Women	3cr
RLST 245	Women and Religion	3cr
RLST 345	Women in the Bible	3cr
RLST 485	Selected Topics in Feminist Studies of Religion	3cr
SOC 251	Sociology of Human Sexuality	3cr
SOC 363	Sociology of Gender	3cr
SOC 427	Spouse Abuse	3cr
WMST 430	Gender, Sexuality, and Sport: A Feminist Perspective	3cr
WMST 482	Independent Study	var-1-3cr

XXXX 481	Special Topics (2) (offered within department)	var-1-3cr
XXXX 493	Internship (3)	var-1-3cr
<p>(1) Students receive approval for a specified course of study from the above list of courses and, with permission from the director of Women's Studies, from selected women's studies courses that have been recently developed. Please see webpage www.iup.edu/womens for current information.</p> <p>(2) Examples of XXXX 481 offered: ART 481 Maidens to Madonna, BTED 481 Women and Business, and WMST 481 Special Topics in Women's Studies.</p> <p>(3) Internships (up to 3cr) may be counted towards the minor.</p>		

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Biochemistry (BIOC)

Biochemistry Program College of Natural Sciences and Mathematics

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

BIOC 301 Biochemistry I
BIOC 302 Biochemistry II
BIOC 311 Biochemistry Laboratory I
BIOC 312 Biochemistry Laboratory II
BIOC 480 Biochemistry Seminar I
BIOC 481 Special Topics in Biochemistry
BIOC 482 Independent Research in Biochemistry
BIOC 490 Biochemistry Seminar II

BIOC 301 Biochemistry I

3c-0l-3cr

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-0l-3cr

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-1cr

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.

BIOC 312 Biochemistry Laboratory II

0c-4l-1cr

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.

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BIOC 480 Biochemistry Seminar I

1c-0l-1cr

Prerequisites: [BIOC 302](#) and [312](#)

A discussion of recent trends in biochemical thought. Oral and written reports on assigned readings, and library or laboratory research. Guest lecturers. The combination [BIOC 480-490](#) counts as one writing-intensive course.

BIOC 481 Special Topics in Biochemistry

var-1-3cr

Prerequisite: [BIOC 302](#) or [CHEM 351](#)

A lecture-discussion course of recent biochemical topics or those of unique interest. Topic and instructors to change annually.

BIOC 482 Independent Research in Biochemistry

var-1-3cr

Prerequisites: [BIOC 302](#) and [312](#), 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-0l-1cr

Prerequisites: [BIOC 302](#), [312](#), and [480](#)

A discussion of recent trends in biochemical thought. Oral and written reports on assigned readings, and library or laboratory research. Guest lecturers. The combination [BIOC 480-490](#) counts as one writing-intensive course.

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Rehabilitation (RHAB)

Department of Special Education and Clinical Services
College of Education and Educational Technology

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

RHAB 200 Introduction to Rehabilitation
RHAB 211 Medical Aspects of Rehabilitation
RHAB 220 Neurological Basis of Disability
RHAB 281 Special Topics
RHAB 312 Psychological Basis of Disability
RHAB 321 Principles and Methods of Rehabilitation
RHAB 322 Rehabilitation Case Study and Interpretation
RHAB 360 Rehabilitation Counseling: Strategies
RHAB 410 Vocational Assessment in Rehabilitation Counseling
RHAB 412 Occupational Aspects of Rehabilitation
RHAB 422 Current Topics in Rehabilitation
RHAB 460 Advanced Rehabilitation Counseling
RHAB 481 Special Topics
RHAB 482 Independent Study
RHAB 484 Directed Rehabilitation Activities

RHAB 200 Introduction to Rehabilitation

3c-0l-3cr

A foundation for subsequent courses in the rehabilitation sequence. 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-0l-3cr

Provides an overview of the etiology and pathology of a range of medical disorders which often require rehabilitative services. Emphasizes the psychosocial and functional effects of these disorders, vocational implications, and rehabilitative needs.

RHAB 220 Neurological Basis of Disability

3c-0l-3cr

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. A discussion and demonstration of conditions of cerebral palsy, poliomyelitis, traumatic paraplegics, cerebrovascular accident, Parkinson's disease, multiple sclerosis, and rehabilitative procedures.

RHAB 281 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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-01-3cr

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-01-3cr

Prerequisites: [RHAB 220](#), [312](#), and instructor permission

Delineates the roles of members of professional disciplines of medicine, psychology, prosthetics, orthodontics, audiology, speech pathology, and 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-01-3cr

Prerequisites: [RHAB 220](#), [312](#), and instructor permission

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-01-3cr

Prerequisites: Permission, Rehabilitation majors only

Helps develop competencies in using various counseling techniques with handicapped persons. Various theories of counseling are explored relative to the rehabilitation setting. Provides basic counseling skills to upperclass Rehabilitation majors prior to field training.

RHAB 410 Vocational Assessment in Rehabilitation Counseling

3c-01-3cr

Prerequisites: [EDEX 111](#), [RHAB 220](#), or faculty permission

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.

RHAB 412 Occupational Aspects of Rehabilitation

3c-01-3cr

Prerequisite: [RHAB 220](#) or instructor permission

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-01-3cr

Taken concurrently with [RHAB 488](#) and [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-01-3cr

Prerequisite: [RHAB 360](#)

Selected counseling techniques studied and practiced under supervision. Application is utilized in roles that will approximate the kind of clients encountered in field training.

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RHAB 481 Special Topics

var-1-3cr

Prerequisite: As appropriate to course content

Offered on an experimental or temporary basis to explore topics not 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-1-3cr

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-3cr

Prerequisites: Permission, Rehabilitation majors only

A pre-field training experience working with handicapped clients in local facilities. Concrete experience helps the students integrate classroom instruction with field experiences.

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Science for Disaster Response (SDR)

College of Natural Sciences and Mathematics

Credit designation below each title is expressed in (c) class hours per week, (l) lab or (d) discussion section hours per week, and (cr) credits per semester.

SDR 111 Basic Biological Laboratory Operations
SDR 121 Chemical Recognition and Identification Techniques
SDR 131 Principles of Radiation
SDR 211 Interaction of CBRN Materials with Biological Systems and PCR Technology
SDR 221 Chemistry of Precursor Compounds
SDR 231 Hazards of Ionizing Radiation
SDR 311 Structure of DNA, RNA, and Cell Morphology
SDR 321 Organic Chemistry of WMD, TICs, and TIMs
SDR 331 Interaction of Ionizing Radiation
SDR 486 Selected Topics in SDR

SDR 111 Basic Biological Laboratory Operations

3c-3l-5cr

Prerequisites: [BIOL 111](#) or equivalent and permission of instructor and local, state, or federal agency/organization authorization

Level 1 biology describes the characteristics of living organisms and the different levels of biological safety as it applies to microbiology and recombinant DNA laboratories; differentiating between atoms, molecules, elements, and compounds and their importance in biologic systems. Macromolecules and energy generation are discussed. Genetics and biotechnology and the role they play in WMD will be extensively studied.

SDR 121 Chemical Recognition and Identification Techniques

3c-4l-5cr

Prerequisites: [CHEM 113](#) and [114](#) or equivalent and permission of instructor and local, state, or federal agency/organization authorization

Level 1 chemistry focuses on atomic structure, periodic properties, chemical bonding, chemical structure, molecular forces, types of chemical reactions, stoichiometry, chemical kinetics, chemical equilibria, and acids and bases in relation to CBRN identification and analysis. Laboratory exercises focus on techniques to aid CBRN identification and analysis.

SDR 131 Principles of Radiation

2c-2l-3cr

Prerequisites: [PHYS 111](#), [112](#), [121](#), and [122](#) or equivalent and permission of instructor and local, state, or federal agency/organization authorization

Level 1 nuclear physics focuses on nuclear radiation basics; radioactivity; radiation measurements, and sources of nuclear radiation in relation to CBRN materials identification and analysis. Laboratory exercises focus on techniques to aid CBRN materials identification and analysis.

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SDR 211 Interaction of CBRN Materials with Biological Systems and PCR Technology

3c-3l-5cr

Prerequisites: [SDR 111](#) and permission of instructor and local, state, or federal agency/organization authorization

Level 2 biology provides intermediate-level first responders with the knowledge, skills, and practical capabilities to effectively identify bacteria, viruses, toxins, and potential genetically modified pathogens which might be used as biological weapons against military forces or civilian communities. Lecture presentations bring together a variety of subjects intimately linked to the advancement of molecular genetics. Integrates

advanced safety techniques in handling microbes with basic principles and facts of microbiology, microscopy, and microbe identification using both molecular biological and immunological techniques. A large section features an in-depth discussion of principles and application of polymerase chain reaction. Hands-on training is a primary goal and is complemented by formal lectures.

SDR 221 Chemistry of Precursor Compounds

3c-4l-5cr

Prerequisites: [SDR 121](#) and permission of instructor and local, state, or federal agency/organization authorization

Level 2 chemistry lays the foundation for understanding the modes of action and preparation of various chemical agents. Topics include the basic organic chemistry of the alkanes, alkenes, alkynes, alcohols, and aromatics (the major TICs and TIMs); free radical chemistry; explosives; the vesicants and lachrymators; and stereochemistry. Laboratory exercises include synthetic techniques to aid the student in quick identification of clandestine drug activities or agent synthesis.

SDR 231 Hazards of Ionizing Radiation

2c-2l-3cr

Prerequisites: [SDR 131](#) and permission of instructor and local, state, or federal agency/organization authorization

Level 2 nuclear physics provides intermediate-level first responders with the knowledge, skills, and abilities necessary to assess the radiation hazards at an incident site that involves the radiological or nuclear weapons of mass destruction. Lecture presentation topics include internal and external radiation hazards; the units and quantities used to measure the radiation effects on humans, including radiation dose calculations; the effects of radiation on various parts of the body; the Nuclear Regulatory Commission dose standards; and the methods used to protect individuals from the harmful effects of radiation and contamination. A practical exercise is used to emphasize the techniques necessary to estimate the dose received from various radiation sources by measuring the radiation exposure with survey meters and detectors.

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SDR 311 Structure of DNA, RNA, and Cell Morphology

3c-3l-5cr

Prerequisites: [SDR 211](#), [CHEM 113](#), [114](#) or equivalent, and permission of instructor and local, state, or federal agency/organization authorization

Level 3 biology provides apprentice-level laboratory technicians with the knowledge and laboratory skills necessary to work in a biological safety laboratory. Focuses on the basic understanding of fundamental microbiology, staining procedures, and microscopic identification of potential biological agents. The possible role of microorganisms in bioterrorism is explored. Emphasis is placed on host-parasite interactions and the human immune system. Emphasis in laboratory classes in microbiology is on aseptic techniques and safe handling of biological agents. Laboratories in eukaryotic gene expression, cloning of sheep DNA, and PCR technology provide the opportunity to gain knowledge of how genes could be modified and genetically manipulated in clandestine laboratories to produce potential bioterroristic agents.

SDR 321 Organic Chemistry of WMD, TICs, and TIMs

3c-4l-5cr

Prerequisites: [SDR 221](#) and permission of instructor and local, state, or federal agency/organization authorization

Level 3 chemistry focuses on aldehydes, ketones, carboxylic acids, derivatives of carboxylic acids, and amines as they pertain to weapons of mass destruction. The nomenclature, preparations, and reactions of these classes of organic compounds are presented. Additional topics include organophosphorous chemistry for the synthesis of nerve agents, precursors and hazards involved with the synthesis of drugs in clandestine laboratories, and the terminology of mass spectrometry. Practical exercises include basic wet chemistry techniques for identification of unknown aldehydes and ketones, basic separation techniques, and a synthetic technique that is similar to what is used in a clandestine drug lab.

SDR 331 Interaction of Ionizing Radiation

2c-2l-3cr

Prerequisites: [SDR 231](#) and permission of instructor and local, state, or federal agency/organization authorization

Level 3 nuclear physics provides apprentice-level first responders with the knowledge, skills, and abilities necessary to identify the radiation hazards at an incident site that involves the radiological or nuclear weapons of mass destruction. Focuses on radiation detection and provides students with the ability to conduct the sampling, evaluation, detection, projection, and control of radiological hazards. Gamma ray spectroscopy systems are used in data acquisition and analysis in the laboratory.

SDR 486 Selected Topics in SDR

var-1-6 cr

Prerequisite: Permission of instructor and local, state, or federal agency/organization authorization

Lecture-laboratory course for first responders in the WMD community and related emergency planners. Topics will be related to the most recent advances in chemical, biological, radiological, and nuclear (CBRN) detection, identification, analysis, and mitigation. Topics and instructors may be the same or vary.

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