

# **MINUTES OF THE IUP UNIVERSITY SENATE**

**September 9, 2003**

Chairperson Smith called the September 9, 2003, meeting of the University Senate to order at 3:19 p.m., in the Alumni Auditorium of the Eberly College of Business.

**The following Senators informed the Senate Leadership that they could not attend:**

Bieger, Bullard, Goldsmith, Hanrahan, Hemby, Mancuso, Nee, Perdue, Receski, Ruffner, Settlemyer, Strittmatter.

The following Senators were absent from the meeting:

Affaneh, Ault, Barker, Belch, Bharadwaj, Briscoe, Camp, Chaudhry, Dandeneau, DiCicco, Eck, Eisenhower, Ezekiel, Fisher, Gasbarro, Horton, Klingaman, Kolb, lui, Mukasa, Orchard, Patrick, Petersen, Ray, Rivera, Rodger, Schroeder, Sharma, Snair.

The minutes of the April 1, 2003, meeting were **APPROVED**.

Agenda items for the September 9, 2003, meeting were **APPROVED**.

## **REPORTS AND ANNOUNCEMENTS**

### **President's Report (Senator Hodgson):**

Let me begin these remarks by thanking you, the entire IUP family, and indeed the greater Indiana community, for the warm reception that I have received everywhere here. No community, no set of colleagues, could have made me feel more welcome. I also want to thank the athletic program for winning the football game against UNO; I would never have heard the end of it if my old school had beaten us.

As I have noted elsewhere, my vision, and I hope your vision, includes at least three commitments. First, we place our students at the focus of the entire enterprise. Second, we will always strive for academic excellence, for the continuous improvement of our academic programs. And third, that we will be actively engaged with our community.

While there are some things that I would ask that you consider, we certainly don't need a dramatic sea change. This university is on the right course, and is well positioned to provide outstanding academic and scholarly service to our students and our other constituents. We offer quality programs at the undergraduate, graduate, and doctoral levels, and we can be very proud of the educational experience that we offer to our students and our state. But, in this time of unequal competition between ever more complex opportunities and apparently decreasing resources, we must decide on our focus. I will, therefore, ask the faculty and other members of the academic community to entertain the concept of *academic prioritization*, which might be described as a rational process whereby we determine our highest academic priorities as defined by our mission, vision, and values.

Since we do place our students at the center, we are devoted to their academic success as measured by retention and graduation rates. IUP has an enviable record, certainly far better than that of the institution I just came from, but I believe that we can do better. I ask that we all work to enhance these measures of student success.

The demographic trends in western Pennsylvania mean that we will have to work harder at student recruitment. We need to be competitive, and this means that we need to be attractive to potential students. Much of our student housing is of the kind that I knew in college. It may be that you and I shared a bedroom with our brother or sister, but your children and mine did not. They do not find that prospect attractive when they go to college; we might as well

send then to the military. We must work on providing attractive housing that will encourage students to come here and to receive the benefits of living on campus.

I hope that we will develop what I call an electronic institutional portfolio, designed to allow all of us to view the institution's progress towards its goals. Similarly, I would like to encourage the development of individual student portfolios, so that every graduate leaves here with an electronic file that documents her/his progress and development.

I could not address you without mentioning the capital campaign, *Gateways to Opportunity*. This campaign will allow IUP to grow in quality and strength, allowing us to better serve future generations of students. The cornerstone is the Regional Development Center, which provides an opportunity for the university and the broader community to work together for the benefit of our region.

I look forward to serving with you as a Senator. Thank you for your attention.

### **Provost's Report (Senator Staszkiwicz):**

I am pleased to add my welcome to the new and returning senators for 2003-04. It is a pleasure to be back. I certainly enjoy the relative calm of the summer months, but we're all here for the students and to see them back on campus in full force is so invigorating.

This promises to be another exciting year and I am hopeful that the work of the Senate will not be interrupted because of negotiations between the State System and State APSCUF.

This year we will have a bit more time (don't laugh!) to work on IUP-initiated projects – at least that is our hope. The Middle States review will impact that some, but that is a project that is in the able hands of Nick Kolb and has or will soon have wide-spread participation. Some of those IUP-initiated projects include the review of our current liberal studies program, participation in the national democracy project, continued automation of the curriculum approval process at IUP, academic program prioritization and ongoing efforts to deal with our budget situation.

Today we will conclude the last of the 124 to 120 conversions initiated last year and then we're back in full swing. I look forward to working with each of you.

### **Chairperson's Report (Senator Smith):**

Good afternoon and welcome to our first senate meeting this year.

Introductions: J.B. Smith, Chair/Justin Aion, Vice Chair, Gwen Torges, Secretary

Welcome: Dr. Hodgson, IUP's new President

For new senators, a long time senator who retired in December of 2001, Dr. Diane Duntley suggested a year ago that I take a moment to clarify role of representatives; I'm cheating and pulling down last year's September notes on this subject, but I hope this will help clarify some things for new senators:

Departmental senators: you have a special responsibility as a liaison for your department, scanning for potential issues and items of concern. You are not tied to "voting for department" -- vote is independent -- but role of liaison is critical.

At-Large Senators: you need to think especially of the Senate as a whole and the University as an institution. You are not another vote "for the department".

Student Senators: you need to think for a broad range of student constituencies. Their votes are "real" votes and they too need to keep an institution-wide perspective in their participation.

Finally, serving as a Senator is for SERVICE not for power or glory or promotion.

As we embark on this school year, the magical number "120" will not be buzzing quite so loudly in our ears and drive the agendas for our meetings. I feel we had a pretty good year last year as I look back. Special thanks to Gail Sechrist and Mohammed Numan, along with the UWUGCC for their spectacular efforts with the effort to comply with the 120 credit mandate. All senators from last year are to be complimented on their efforts. Thank you, and let's have a good year!

### **Vice Chairperson's Report (Senator Aion)**

A motion was passed to reorder the agenda so that the Vice Chairperson could be elected, and Justin Aion was elected.

Senator Aion welcomed everyone back for the fall semester, and called upon faculty to recruit students for Student Congress and for the University Senate.

### **STANDING COMMITTEE REPORTS**

#### **Rules Committee (Senator Broad):**

Said that election to fill vacant committee seats would be soon.

#### **Academic Committee (Senator Andrew):**

No report.

#### **Award Committee (Senator Jackson):**

No report.

#### **University-Wide Undergraduate Curriculum Committee (Senators Sechrist/Numan):**

See APPENDIX A, pages 5-36.

#### **University-Wide Graduate Committee (Co-chairs Chambers/Laporte):**

No report.

#### **Library and Educational Services (Chair Johnson):**

See APPENDIX B, page 37.

#### **Noncredit Committee (Chair Karimi):**

No report.

#### **Research Committee (Chair Guth):**

See APPENDIX C, page 38.

#### **Student Affairs Committee (Chair Hall):**

No report.

**University Development and Finance Committee (Chair Domaracki):**

No report.

**Adjournment**

With no further business, the meeting was adjourned at 4:21 p.m.

Respectfully submitted,  
Gwen Torges  
Senate Secretary

**APPENDIX A**  
**University-Wide Undergraduate Curriculum Committee**  
**Co-Chairs Sechrist and Numan**

**FOR INFORMATION:**

**Liberal Studies Committee Report:**

Dr. James Dougherty, Department of Sociology, one time approval for Fall 2003 to designate SOC 362 as writing intensive.

Ms. Stephanie Caulder, Department of Music, one time approval for Fall 2003 to designate MUHI 301 as writing intensive.

Ms. Sara Rutledge, Department of Professional Studies in Education, one time approval for Fall 2003 to teach LBST 499 Childhood in America.

Approved Liberal Studies revisions for B.S.—Respiratory Care. Approved the Liberal Studies section of B.S.—Respiratory Care/Certified Respiratory Therapist Track.

**FOR ACTION:**

**1. Department of Biology—Program Revision (120 Resubmit)**

**PASSED**

**Current Program:**

**BS in Education—Biology (\*)**

**Liberal Studies:** As outlined in the Liberal Studies section with the following specifications: **54**

**Mathematics:** MATH 110 or 121

**Natural Sciences:** CHEM 111-112

**Social Science:** PSYC 101

**Liberal Studies Electives:** 9cr, MATH 217, PHYS 111, one course with GEOS prefix from the Liberal Studies Natural Science (Option II) Nonlaboratory List, no courses with BIOL prefix

**College of Education:** **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 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 Schools 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: (majors courses only) 8cr

**Proposed Program:**

**BS in Education—Biology (\*)**

**Liberal Studies:** As outlined in the Liberal Studies section with the following specifications: **54**

**Mathematics:** MATH 110 or 121

**Natural Sciences:** 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

**College of Education:** **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 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 Schools 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: (majors courses only) 8cr

<b>Other Requirements:</b>	<b>8</b>
<b>Chemistry Sequence:</b>	
CHEM 231      Organic Chemistry I	4cr
CHEM 351      Biochemistry (3)	4cr

**Free Electives: enough credits beyond those listed above to total 120 credits.**

**Total Degree Requirements: 120**

- (\*) See requirements leading to teaching certification, titled "Admission to Teacher Education," in the College of Education and Educational Technology section of this catalog.
- (1) Eligibility for student teaching and certification in secondary biology education will require a grade of C or better in all biology courses.
- (2) No more than 6cr from Independent Study (BIOL 482), Special Topics (BIOL 481), or Internship (BIOL 493) applies to major: excess applied as free electives.
- (3) The two-semester (6 cr) sequence of BIOC 301-302 can be substituted for CHEM 351 to meet the biochemistry requirement.
- (#) See advisory paragraph, "Timely Completion of Degree Requirements" in the section on Requirements for Graduation.

<b>Other Requirements:</b>	<b>8</b>
<b>Chemistry Sequence:</b>	
CHEM 231      Organic Chemistry I	4cr
CHEM 351      Biochemistry (3)	4cr

**Free Electives: enough credits beyond those listed above to total 120 credits.**

**Total Degree Requirements: 120**

- (\*) See requirements leading to teaching certification, titled "Admission to Teacher Education," in the College of Education and Educational Technology section of this catalog.
- (1) Eligibility for student teaching and certification in secondary biology education will require a grade of C or better in all biology courses.
- (2) No more than 6cr from Independent Study (BIOL 482), Special Topics (BIOL 481), or Internship (BIOL 493) applies to major: excess applied as free electives.
- (3) The two-semester (6 cr) sequence of BIOC 301-302 can be substituted for CHEM 351 to meet the biochemistry requirement.
- (#) See advisory paragraph, "Timely Completion of Degree Requirements" in the section on Requirements for Graduation.

**Rationale:** When this program was passed by Senate last spring, the incorrect Physics course was listed under liberal studies electives (PHYS 111 instead of PHYS 151).

## 2. Department of Sociology—Program Revision (120 Resubmit)

**PASSED**

### **BA—Sociology/Applied Social Research Track**

#### **Current Program:**

**Liberal Studies:** 53

**Mathematics:** MATH 217 recommended

**Social Science:** SOC 151 required, ANTH 110 recommended

**Liberal Studies Electives:** 9cr, COSC 101, no courses with SOC prefix

**College:** 0-6

**Major:** 42

**Free Electives: enough credits beyond those listed above to total 120 credits.**

**Total Degree Requirements: 120**

#### **Proposed Program:**

**Liberal Studies:** 53

**Mathematics:** MATH 217

**Social Science:** SOC 151 required, ANTH 110 recommended

**Liberal Studies Electives:** 9cr, COSC 101, no courses with SOC prefix

**College:** 0-6

**Major:** 42

**Free Electives: enough credits beyond those listed above to total 120 credits.**

**Total Degree Requirements: 120**

**Rationale:** Last spring the word recommended was accidentally included after MATH 217.

## 3. Department of Anthropology—Program Revision (120 Resubmit)

**PASSED**

#### **Current Program:**

**BS—Education—Social Science  
Education/Anthropology Concentration (\*)**

**Liberal Studies:** As outlined in the Liberal Studies section with the following specifications: 48

**Mathematics:** 3cr

**Humanities-History:** Fulfilled by required courses in the major

**Natural Science:** BIOL 103-104 or two of the following: GEOS 101/102. GEOS 103/104, GEOS

#### **Proposed Program:**

**BS—Education—Social Science  
Education/Anthropology Concentration (\*)**

**Liberal Studies:** As outlined in the Liberal Studies section with the following specifications: 48

**Mathematics:** 3cr

**Humanities-History:** Fulfilled by required courses in the major

**Natural Science:** BIOL 103-104 or two of the following: GEOS 101/102. GEOS 103/104, GEOS

105/106

**Social Science:** ANTH 211, ECON 121, PSYC 101  
**Liberal Studies Electives:** 6cr, SOC 362 or 363, PSYC 310 or 330, no course with ANTH prefix

**College:**

3 additional cr of MATH 100 level or above (in addition to LS MATH) (1) 3cr

**Pre-Professional 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 Exp. I 1cr

EDUC 342 Pre-student Teaching Clinical Exp II 1cr

EDUC 441 Student Teaching 12cr

EDUC 442 School Law 1cr

EDUC 455 Teaching of Social Studies in Secondary Schools 3cr

**Major:**

**Required courses:**

ANTH 211 Cultural Anthropology \*cr(1)

ANTH 222 Biological Anthropology 3cr

ANTH 233 Language and Culture 3cr

ANTH 244 Basic Archaeology 3cr

Two area ethnography courses: ANTH 271, 272, 273, or 314 6cr

Two additional Anthropology courses numbered 300 or above 6cr

**History Distributional Requirements:**

HIST 202 Western Civilization since 1600 3cr

HIST 204 U.S. History to 1877 3cr

HIST 205 U.S. History since 1877 3cr

**Social Science Distribution Requirements:**

GEOG 230 Cultural Geography 3cr

PLSC 280 or 285 Comparative Government I: Western Political Systems or Comparative Government II: Non-Western Systems 3cr

SOC 151 or 231 Principles of Sociology or Contemporary Social Problems 3cr

**Free Electives: enough credits beyond those listed above to total 120 credits.**

**Total Degree Requirements:**

**120**

(\*) See requirements leading to teacher certification, titled "Admission to 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.

**Rationale:** The version submitted on April 29<sup>th</sup> contained the incorrect courses in the Anthropology Core. The proposed program is what should have been submitted.

105/106

**Social Science:** ANTH 211, ECON 121, PSYC 101  
**Liberal Studies Electives:** 6cr, SOC 362 or 363, PSYC 310 or 330, no course with ANTH prefix

**College:**

3 additional cr of MATH 100 level or above (in addition to LS MATH) (1) 3cr

**Pre-Professional 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 Exp I 1cr

EDUC 342 Pre-student Teaching Clinical Exp II 1cr

EDUC 441 Student Teaching 12cr

EDUC 442 School Law 1cr

EDUC 455 Teaching of Social Studies in Secondary Schools 3cr

**Major:**

**Required courses:**

ANTH 211 Cultural Anthropology \*cr(2)

ANTH 213 World Archaeology 3cr

ANTH 222 Biological Anthropology 3cr

One additional sudisciplinary course:

ANTH 233 Language and Culture **or** ANTH 244 Basic Archaeology 3cr

Two area ethnography courses: ANTH 271, 272, 273, or 314 6cr

Two additional Anthropology courses numbered 300 or above 6cr

**History Distributional Requirements:**

HIST 202 Western Civilization since 1600 3cr

HIST 204 U.S. History to 1877 3cr

HIST 205 U.S. History since 1877 3cr

**Social Science Distribution Requirements:**

GEOG 230 Cultural Geography 3cr

PLSC 280 or 285 Comparative Government I: Western Political Systems or Comparative Government II: Non-Western Systems 3cr

SOC 151 or 231 Principles of Sociology or Contemporary Social Problems 3cr

**Free Electives: enough credits beyond those listed above to total 120 credits.**

**Total Degree Requirements:**

**120**

(\*) See requirements leading to teacher certification, titled "Admission to 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.

**4. Department of Geoscience--Program Revisions (120 Resubmits)****PASSED****Current Program:****BS in Education-- Earth and Space Science (\*)****Liberal Studies:** As outlined in the Liberal Studies section with the following specifications: **52****Mathematics:** MATH 121**Natural Sciences:** CHEM 111-112**Social Science:** PSYC 101**Liberal Studies Electives:** 6cr, MATH 217, PHYS 111, no courses with GEOS prefix**College of Education:****Professional Education Sequence: (1)**

COMM 103	Digital Instructional Technology	3cr	<b>29</b>
EDEX 301	Education of Students with Disabilities in Inclusive Secondary Settings	2cr	
EDSP 102	Educational Psychology		
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 Schools	3cr	

**Major: (1)****Required Courses:**

BIOL 103	General Biology I	4cr	<b>39</b>
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: (2)**Geology electives  
(not GEOS 101, 103, 105, 111, 113, 141) **9cr****Total Degree Requirements:****120**

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

**Proposed Program:****BS in Education-- Earth and Space Science (\*)****Liberal Studies:** As outlined in the Liberal Studies section with the following specifications: **52****Mathematics:** MATH 121**Natural Sciences:** CHEM 111-112**Social Science:** PSYC 101**Liberal Studies Electives:** 6cr, MATH 217, PHYS 111, no courses with GEOS prefix**College of Education:****Professional Education Sequence:**

COMM 103	Digital Instructional Technology	3cr	<b>29</b>
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 451	Teaching Science in the Secondary Schools	3cr	

**Major:****Required Courses:**

BIOL 103	General Biology I	4cr	<b>39</b>
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 teaching certification, titled "Admission to Teacher Education," in the College of Education and Educational Technology section of this catalog.

**Rationale:** The footnotes (1) and (2) should not be in the listing because those footnotes no longer exist.**Current Program:****BS in Education--General Science Education (\*)****Liberal Studies:** As outlined in the Liberal Studies section with the following specifications: **52****Mathematics:** MATH 121(1)**Natural Sciences:** CHEM 111-112**Social Science:** PSYC 101**Liberal Studies Electives:** 6cr, MATH 217, PHYS**Proposed Program:****BS in Education--General Science Education (\*)****Liberal Studies:** As outlined in the Liberal Studies section with the following specifications: **52****Mathematics:** MATH 121(1)**Natural Sciences:** CHEM 111-112**Social Science:** PSYC 101**Liberal Studies Electives:** 6cr, MATH 217, PHYS



111, no courses with prefix of chosen track in major

**College of Education:**

**Professional Education Sequence: (1)**

COMM 103	Digital Instructional Technology	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
EDUC 451	Teaching Science in the Secondary Schools	3cr

**Major: (1)**

**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:**

Biology track: BIOL 210, 220, 250, 272, 480, BIOL elective	15-16cr
Chemistry track: CHEM 231, 321, 351, 232, or 340 or 341	
Geoscience track: GEOS 121, 123, 131, 341, or 342, 361, 371	
Physics track: PHYS 222, 231, 242, 331, 350 (2)	

**Free Electives: enough credits beyond those listed above to total 120 credits.**

**(#)Total Degree Requirements:**

**120**

- (\*) See requirements leading to teaching certification, titled "Admission to Teacher Education," in the College of Education and Educational Technology section of this catalog.
- (1) Note: If Physics track is elected, MATH 123 and 124 are required in place of MATH 121 resulting in additional total credits.
- (#) See advisory paragraph "Timely Completion of Degree Requirements" in the section on Requirements for Graduation.

111, no courses with prefix of chosen track in major

**29 College of Education:**

**Professional Education Sequence:**

COMM 103	Digital Instructional Technology	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
EDUC 451	Teaching Science in the Secondary Schools	3cr

**39 Major:**

**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 Laboratory	1cr
GEOS 113	Earth Science for Educators II	3cr
GEOS 114	Earth Science for Educators II Laboratory	1cr
PHYS 112	Physics II Lecture	3cr
PHYS 121	Physics I Lab	1cr
PHYS 122	Physics II Lab	1cr

**Controlled Electives:**

Biology track: BIOL 210, 220, 250, 272, 480, BIOL elective	15-17cr
Chemistry track: CHEM 231, 321, 351, 232, or 340 or 341	
Geoscience track: GEOS 121, 122, 131, 132, 341 or 342, 361, 371	
Physics track: PHYS 222, 231, 242, 331, 350 (1)	

**Free Electives: enough credits beyond those listed above to total 120 credits.**

**(#)Total Degree Requirements:**

**120**

- (\*) See requirements leading to teaching certification, titled "Admission to Teacher Education," in the College of Education and Educational Technology section of this catalog.
- (1) Note: If Physics track is elected, MATH 123 and 124 are required in place of MATH 121 resulting in additional total credits.
- (#) See advisory paragraph "Timely Completion of Degree Requirements" in the section on Requirements for Graduation.

**Rationale:** Incorrect information appeared in the Major required courses and under Geoscience in controlled electives. The correct number of free electives is 1-3.

**5. Department of Human Development and Environmental Studies—Program Revision (120 Resubmit)**

**PASSED**

**Current Program:**

**BS—Interior Design**

**Liberal Studies:** As outlined in the Liberal Studies section with the following specifications:  
**Mathematics:** MATH 101 or higher  
**Humanities-Philosophy/Religious Studies:** PHIL 223 recommended  
**Fine Arts:** ARHI 101  
**Natural Science:** SCI 105-106  
**Social Science:** PSYC 101, SOC 151  
**Liberal Studies Electives:** 6cr, ARHI 205 or 206, ECON 122, no courses with INDS prefix

**Major:**

**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 305	Interior Lighting	3cr
INDS 310	Human Factors in Interior Design	3cr
INDS 313	Materials and Finishes	3cr
INDS 315	Residential Design	3cr
INDS 319	Residential Design II: Kitchen, Bath, Media Room Design	3cr
INDS 370	Development of Design I /W/	3cr
INDS 380	Development of Design II /W/	3cr
INDS 405	Interior Design Professional Practice	3cr
INDS 464	Contract Design I	3cr
INDS 465	Contract Design II	3cr

**Other Requirements:**

**Outside Concentration:**

Business: BTST 101, MKTG 320	6cr
Art: ART 120, 213; one course from the following: ART 214, 215, 216, 218, 219	8cr

**Free Electives: enough credits beyond those listed above to total 120 credits.**

**Total Degree Requirements:**

**120**

**Rationale:** Under Liberal Studies electives the ARHI courses listed should be 205 or 207 since 206 has been deleted.

**Proposed Program:**

**BS—Interior Design**

**51 Liberal Studies:** As outlined in the Liberal Studies section with the following specifications:  
**Mathematics:** MATH 101 or higher  
**Humanities-Philosophy/Religious Studies:** PHIL 223 recommended  
**Fine Arts:** ARHI 101  
**Natural Science:** SCI 105-106  
**Social Science:** PSYC 101, SOC 151  
**Liberal Studies Electives:** 6cr, ARHI 205 or 207, ECON 122, no courses with INDS prefix

**45**

**Major:**

**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 305	Interior Lighting	3cr
INDS 310	Human Factors in Interior Design	3cr
INDS 313	Materials and Finishes	3cr
INDS 315	Residential Design	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

**14**

**Other Requirements:**

**Outside Concentration:**

Business: BTST 101, MKTG 320	6cr
Art: ART 120, 213; one course from the following: ART 214, 215, 216, 218, 219	8cr

**Free Electives: enough credits beyond those listed above to total 120 credits.**

**Total Degree Requirements:**

**120**

**6. Department of Spanish—Program Revisions (120 Resubmits)**

**PASSED**

**Current Program:**

**BA—Spanish**

**Liberal Studies:** As outlined in the Liberal Studies section with the following specifications:  
**Mathematics:** 3cr  
**Liberal Studies Electives:** no courses with SPAN prefix

**College:**

Foreign Language (included in major)

**Major:**

**53**

**Proposed Program:**

**BA—Spanish**

**53 Liberal Studies:** As outlined in the Liberal Studies section with the following specifications:  
**Mathematics:** 3cr  
**Liberal Studies Electives:** 9cr, no courses with SPAN prefix

**0**

**College:**

Foreign Language (included in major)

**37**

**Major:**

**53**

**0**

**37**

Study Abroad (1)

**Required Courses:**

SPAN 201	Intermediate Spanish or equivalent	4cr
SPAN 220	Intermediate Spanish Conversation	3cr
SPAN 230	Intermediate Spanish Composition	3cr
SPAN 260	Introduction to Hispanic Literature	3cr
SPAN 321	Advanced Spanish Conversation	3cr
SPAN 340	Hispanic Civilization Through the 19 <sup>th</sup> Century	3cr
SPAN 342/344	20 <sup>th</sup> Century Spanish Civilization and Culture/20 <sup>th</sup> -Century Spanish-American Civilization and Culture	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: enough credits beyond those listed above to total 120 credits.**

**Total Degree Requirements:**

**124-126**

(1) Students in the B.A. Spanish major must successfully complete a program of language study in a Spanish-speaking country. This program must, as a minimum, last four weeks and carry 3 or more sh extending beyond the intermediate level. Students may fulfill this requirement by participating in any of IUP's study abroad programs in Spain, Mexico, or Costa Rica or by transferring credits from another accredited program. Students wishing to fulfill this requirement through a non-IUP program should obtain prior approval from the department. Based on demonstration of adequate oral proficiency and significant cross-cultural experience, students may be exempted from this requirement with the approval of the advisor.

Study Abroad (1)

**Required Courses:**

SPAN 201	Intermediate Spanish or equivalent	4cr
SPAN 221	Intermediate Spanish Grammar and Conversation	3cr
SPAN 230	Intermediate Spanish Composition	3cr
SPAN 260	Introduction to Hispanic Literature	3cr
SPAN 321	Advanced Spanish Conversation	3cr
SPAN 340	Hispanic Civilization Through the 19 <sup>th</sup> Century	3cr
SPAN 342/344	20 <sup>th</sup> Century Spanish Civilization and Culture/20 <sup>th</sup> -Century Spanish-American Civilization and Culture	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	3 cr

**Free Electives: enough credits beyond those listed above to total 120 credits.**

**Total Degree Requirements:**

**120**

(1) Students in the B.A. Spanish major must successfully complete a program of language study in a Spanish-speaking country. This program must, as a minimum, last four weeks and carry 3 or more 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 the approval of the advisor.

**Rationale:** SPAN 220 should be 221 and there were credits missing for one course.

**Current Program:**

**BS in Education—Secondary Spanish Education (\*)**

**Liberal Studies:** As outlined in the Liberal Studies section with the following specifications: **53**  
**Mathematics:** 3cr  
**Social Science:** ANTH 110, PSYC 101  
**Liberal Studies Electives:** 9cr, MATH course (1), no courses with SPAN prefix

**College:** **29**

<b>Pre-Professional Educational Sequence:</b>		
COMM 103	Digital Instructional Technology	3cr
EDSP 102	Educational Psychology	3cr
<b>Professional Education Sequence:</b>		
EDEX 301	Education of Students with Disabilities in Inclusive Secondary Schools	2cr
EDSP 477	Assessment of Student Learning: Design and Interpretation of Educational Measures	3cr
EDUC 242	Pre-Student Teaching and Clinical Exp I	1cr
EDUC 342	Pre-Student Teaching and Clinical Exp II	1cr
EDUC 441	Student Teaching	12cr
EDUC 442	School Law	1cr
EDUC 453	Teaching of Foreign Languages in the	

**Proposed Program:**

**BS in Education—Secondary Spanish Education (\*)**

**Liberal Studies:** As outlined in the Liberal Studies section with the following specifications: **53**  
**Mathematics:** 3cr  
**Social Science:** ANTH 110, PSYC 101  
**Liberal Studies Electives:** 9cr, MATH course (1), no courses with SPAN prefix

**College:** **29**

<b>Pre-Professional Educational Sequence:</b>		
COMM 103	Digital Instructional Technology	3cr
EDSP 102	Educational Psychology	3cr
<b>Professional Education Sequence:</b>		
EDEX 301	Education of Students with Disabilities in Inclusive Secondary Schools	2cr
EDSP 477	Assessment of Student Learning: Design and Interpretation of Educational Measures	3cr
EDUC 242	Pre-Student Teaching and Clinical Exp I	1cr
EDUC 342	Pre-Student Teaching and Clinical Exp II	1cr
EDUC 441	Student Teaching	12cr
EDUC 442	School Law	1cr
EDUC 453	Teaching of Foreign Languages in the	

Secondary School 3cr

Secondary School 3cr

**Major: 37**

Study Abroad (2)

**Required Courses:**

SPAN 201	Intermediate Spanish or equivalent	4cr
SPAN 221	Intermediate Spanish Conversation	3cr
SPAN 230	Intermediate Spanish Composition	3cr
SPAN 260	Introduction to Hispanic Literature	3cr
SPAN 321	Advanced Spanish Conversation	3cr
SPAN 340	Hispanic Civilization Through the 19 <sup>th</sup> Century	3cr
SPAN 342/344	20 <sup>th</sup> Century Spanish Civilization and Culture/20 <sup>th</sup> Century Spanish-American Civilization and Culture	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 class	3cr

**Free Electives: enough credits beyond those listed above to total 120 credits.**

**(#)Total Degree Requirements: 120**

- (\*) See requirements leading to teacher certification, titled "Admission to 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 Studied Electives must still take a second MATH course in order to fulfill the state requirements
- (2) Students in the B.S. Ed. Secondary Spanish major must successfully complete a program of language study in a Spanish-speaking county. 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 the approval of the advisor.

**Major: 37**

Study Abroad (2)

**Required Courses:**

SPAN 201	Intermediate Spanish or equivalent	4cr
SPAN 221	Intermediate Spanish Conversation	3cr
SPAN 230	Intermediate Spanish Composition	3cr
SPAN 260	Introduction to Hispanic Literature	3cr
SPAN 321	Advanced Spanish Conversation	3cr
SPAN 340	Hispanic Civilization Through the 19 <sup>th</sup> Century	3cr
SPAN 342/344	20 <sup>th</sup> Century Spanish Civilization and Culture/20 <sup>th</sup> Century Spanish-American Civilization and Culture	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: enough credits beyond those listed above to total 120 credits.**

**(#)Total Degree Requirements: 120**

- (\*) See requirements leading to teacher certification, titled "Admission to 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 Studied Electives must still take a second MATH course in order to fulfill the state requirements
- (2) Students in the B.S. Ed. Secondary Spanish major must successfully complete a program of language study in a Spanish-speaking county. 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 the approval of the advisor.

**Rationale:** Two courses that were already in the program were omitted from the program that was approved last spring, SPAN 353 and 390.

**Current Program:**

**BA—Spanish for International Trade**

**Liberal Studies:** As outlined in the Liberal Studies section with the following specifications: **52**

**Mathematics:** MATH 115

**Social Sciences:** ECON 121, PSYC 101

**Liberal Studies Electives:** 6cr, BTED/COSC/IFMG 101. MATH 214, no courses with SPAN prefix

**College:**

Foreign Language (included in major) **0**

**Proposed Program:**

**BA—Spanish for International Trade**

**Liberal Studies:** As outlined in the Liberal Studies section with the following specifications: **52**

**Mathematics:** MATH 115

**Social Sciences:** ECON 121, PSYC 101

**Liberal Studies Electives:** 6cr, BTED/COSC/IFMG 101, MATH 214, no courses with SPAN prefix

**College:**

Foreign Language (included in major) **0**

**Major:**  
Study Abroad (1)

**Required courses:**

SPAN 222	Intermediate Spanish Conversation-Business (2)	3cr
SPAN 230	Intermediate Spanish Composition	3cr
SPAN 260	Introduction to Hispanic Literature	3cr
SPAN 321	Advanced Spanish Conversation	3cr
SPAN 340	Hispanic Civilization through the 19 <sup>th</sup> Century	3cr
SPAN 344	20 <sup>th</sup> Century Spanish American Civilization	3cr
SPAN 321	Advanced Spanish Conversation	3cr
SPAN 354	Commercial Spanish	3cr
SPAN 404	Advanced Spanish Grammar	3cr

**Controlled electives:** 3cr  
Any three Spanish credits in courses 362 or above except SPAN 390

**Other Requirements: Business sequence**

ACCT 201	Accounting Principles I	36
ACCT 202	Accounting Principles II	3cr
BLAW 235	Introduction to Business Law	3cr
BTST 321	Business and Interpersonal Communications	3cr
ECON 122	Principles of Economics II	3cr
FIN 310	Finance I	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: enough credits beyond those listed above to total 120 credits.**

**Total Degree Requirements: 120**

(1) Students in the B.A. Spanish for International Trade major must successfully complete a program of language study in a Spanish-speaking country. This program must, as a minimum, last four weeks and carry 3 or more sh extending beyond the intermediate level. Students may fulfill this requirement by participating in any of IUP's study abroad programs in Spain, Mexico, or Costa Rica or by transferring credits from another accredited program. Students wishing to fulfill this requirement through a non-IUP program should obtain prior approval from the department. Based on demonstration of adequate oral proficiency and significant cross-cultural experience, students may be exempted from this requirement with the approval of the advisor.

**30 Major:**  
Study Abroad (1)

**Required courses:**

SPAN 222	Intermediate Spanish Conversation-Business (2)	3cr
SPAN 230	Intermediate Spanish Composition	3cr
SPAN 260	Introduction to Hispanic Literature	3cr
SPAN 321	Advanced Spanish Conversation	3cr
SPAN 340	Hispanic Civilization through the 19 <sup>th</sup> Century	3cr
SPAN 344	20 <sup>th</sup> Century Spanish American Civilization	3cr
SPAN 354	Commercial Spanish	3cr
SPAN 402	Translation and Interpretation	3cr
SPAN 404	Advanced Spanish Grammar	3cr

**Controlled electives:** 3cr  
Any three Spanish credits in courses 362 or above except SPAN 390

**Other Requirements: Business sequence**

ACCT 201	Accounting Principles I	36
ACCT 202	Accounting Principles II	3cr
BLAW 235	Introduction to Business Law	3cr
BTST 321	Business and Interpersonal Communications	3cr
ECON 122	Principles of Economics II	3cr
FIN 310	Finance I	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: enough credits beyond those listed above to total 120 credits.**

**Total Degree Requirements: 120**

(1) Students in the B.A. Spanish for International Trade major must successfully complete a program of language study in a Spanish-speaking country. This program must, as a minimum, last four weeks and carry 3 or more 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 the approval of the advisor.

**Rationale:** SPAN 321 was accidentally listed twice. SPAN 402 should have been listed in place of the second SPAN 321.

**7. Department of Computer Science - Program Revisions (120 Resubmits)**

**Current Program:**

**Bachelor of Arts - Computer Science**

**Liberal Studies:** As outlined in the Liberal Studies section with the following specifications:

**Mathematics:** 4cr, MATH 123 (1)

**Proposed Program:**

**Bachelor of Arts - Computer Science**

**50 Liberal Studies:** As outlined in the Liberal Studies section with the following specifications:

**Mathematics:** 4cr, MATH 123 (1)

**PASSED**

**50**

**Liberal Studies Electives:** 4cr, MATH 216 (1)

**Liberal Studies Electives:** 4cr, MATH 216 (1), no courses with COSC prefix

<b>Major:</b>	<b>36</b>
<b>Required Courses:</b>	
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 Intro to Database Management Systems	3cr
COSC 380 Seminar on the Computer Profession	1cr
COSC 480 Seminar on Technical Topics	1cr
<b>Controlled Electives:</b>	
Select 6cr from the following: (1)	
COSC 250 Introduction to Numerical Methods	3cr
COSC 304 Interactive Internet Programming with Java	3cr
COSC 316 Cybersecurity Basics	3cr(3)
COSC 319 Software Engineering Concepts	3cr
COSC 320 Software Engineering Practice	3cr
COSC 344 Productivity Tools and 4th Generation Languages	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	12cr(4)
IFMG 455 Data Warehousing & Mining	3cr
<b>Upper-level Electives by Categories:</b>	6cr(5)
Computer Architecture: COSC 410	
Theory of Languages: COSC 419, 420, 424, 460	
Systems Programming: COSC 430, 432	
Numerical Methods: COSC 450, 451	
Artificial Intelligence: COSC 405	
Database Management: COSC 415	
<b>Other Requirements:</b>	
<b>Additional Writing:</b>	<b>6 –18</b>
ENGL 322 Technical Writing	3cr
Foreign Language Intermediate Level	0-6cr(4)
<b>Additional Mathematics:</b>	
MATH 219 Discrete Mathematics	3-9cr(1)
<b>Free Electives:</b>	<b>16-28</b>
<b>Total Degree Requirements:</b>	<b>120</b>

- (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. The three-credit minimum applies to students who take MATH 123 and 216. The nine-credit maximum applies to students who do not take MATH 123 and MATH 216 but choose alternatives in addition to MATH 219.
- (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.

<b>Major:</b>	<b>36</b>
<b>Required Courses:</b>	
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 Intro to Database Management Systems	3cr
COSC 380 Seminar on the Computer Profession	1cr
COSC 480 Seminar on Technical Topics	1cr
<b>Controlled Electives:</b>	
Select 6cr from the following: (2)	
COSC 250 Introduction to Numerical Methods	3cr
COSC 304 Interactive Internet Programming with Java	3cr
COSC 316 Cybersecurity Basics	3cr(3)
COSC 319 Software Engineering Concepts	3cr
COSC 320 Software Engineering Practice	3cr
COSC 344 Productivity Tools and 4th Generation Languages	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	12cr(4)
IFMG 455 Data Warehousing & Mining	3cr
<b>Upper-level Electives by Categories:</b>	6cr(5)
Computer Architecture: COSC 410	
Theory of Languages: COSC 419, 420, 424, 460	
Systems Programming: COSC 430, 432	
Numerical Methods: COSC 427, 450, 451	
Artificial Intelligence: COSC 405	
Database Management: COSC 415	
<b>Other Requirements:</b>	
<b>Additional Writing:</b>	<b>6 –12</b>
ENGL 322 Technical Writing	3cr
Foreign Language Intermediate Level	0-6cr
<b>Additional Mathematics:</b>	
MATH 219 Discrete Mathematics	3cr(1)
<b>Free Electives:</b>	<b>22-28</b>
<b>Total Degree Requirements:</b>	<b>120</b>

- (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.

- (5) Select at least two additional courses, from at least two different categories, from the list of upper-level electives.

**Rationale:** The following mistakes were in the version passed last spring: COSC 427 should also have been on the list of Numerical Methods courses. The credits for MATH 219 should be 3cr and footnote one should have the last two sentences deleted. The (1) after Select 6cr from the following: should be (2) and the (4) after foreign language should have been removed. Other Requirements then should be 6-12.

**Current Program:**

**Bachelor of Arts - Computer Science /Applied Computer Science Track**

**Liberal Studies:** As outlined in the Liberal Studies section with the following specifications:

**Mathematics:** MATH 123 (1)

**Liberal Studies Electives:** 4cr, MATH 216 (1)

**Major:**

**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	Intro to Database Management Systems	3cr
COSC 380	Seminar on the Computer Profession	1cr
COSC 480	Seminar on Technical Topics	1cr
Select one of the following two courses: (2)		
COSC 304	Interactive Internet Programming with JAVA	3cr
COSC 344	Productivity Tools and Fourth Generation Languages	3cr
Select one of the following two courses: (3)		
COSC 320	Software Engineering Practice	3cr
COSC 493	Internship in Computer Science	12cr(4)

**Controlled Electives:**

Select 3cr from the following: (4)

COSC 250	Introduction to Numerical Methods	3cr
COSC 316	Cybersecurity Basics	3cr(6)
COSC 345	Data Communications	3cr
COSC/IFMG 354	Testing and Controlling LANs	3cr
COSC 355	Computer Graphics	1cr
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 & Mining	3cr
Upper-level Electives by Categories: Select 3cr from the following: 3cr(7)		
Computer Architecture: COSC 410		
Database Management: COSC 415		
Theory of Languages: COSC 419, 420, 424, 460		
Systems Programming: COSC 430, 432		
Numerical Methods: COSC 450, 451		
Artificial Intelligence: COSC 405		

**Proposed Program:**

**Bachelor of Arts - Computer Science /Applied Computer Science Track**

**50 Liberal Studies:** As outlined in the Liberal Studies section with the following specifications: **50**

**Mathematics:** MATH 123 (1)

**Liberal Studies Electives:** 4cr, MATH 216 (1), no courses with COSC prefix

**39 Major:**

**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	Intro to Database Management Systems	3cr
COSC 380	Seminar on the Computer Profession	1cr
COSC 480	Seminar on Technical Topics	1cr
Select one of the following two courses: (2)		
COSC 304	Interactive Internet Programming with JAVA	3cr
COSC 344	Productivity Tools and Fourth Generation Languages	3cr
Select one of the following two courses: (3)		
COSC 320	Software Engineering Practice	3cr
COSC 493	Internship in Computer Science	12cr(4)

**Controlled Electives:**

Select 3cr from the following: (5)

COSC 250	Introduction to Numerical Methods	3cr
COSC 316	Cybersecurity Basics	3cr(6)
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 & Mining	3cr
Upper-level Electives by Categories: Select 3cr from the following: 3cr(7)		
Computer Architecture: COSC 410		
Database Management: COSC 415		
Theory of Languages: COSC 419, 420, 424, 460		
Systems Programming: COSC 430, 432		
Numerical Methods: COSC 427, 450, 451		
Artificial Intelligence: COSC 405		

**Other Requirements:** **6 -22**  
**Additional Writing:**  
 ENGL 322 Technical Writing 3cr  
 Foreign Language Intermediate Level 0-6cr  
 Additional Mathematics:  
 MATH 219 Discrete Mathematics 3cr(1)

Complete a minor from one of the following areas from: **6-18**  
 Any department in the College of Natural Sciences and Mathematics 6-18cr  
 Designated Business courses 18cr  
 Designated Economics courses 15cr  
 Designated Geography courses 15cr  
 Designated Communications Media courses 18cr

**Free Electives:** **0-19**

**Total Degree Requirements:** **124**

- (1) Select at least 6cr from the list of controlled electives and/or the list of upper-level electives. Note: Only 4cr of COSC 493 may be counted toward these 6cr.
- (2) 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
- (3) Select at least two additional courses, from at least two different categories, from the list of upper-level electives.
- (4) Foreign Language intermediate-level courses are counted as Liberal Studies electives.
- (5) Any of the Mathematics options satisfy the Learning Skill requirement, and one course may be counted as a Liberal Studies elective. The three-credit minimum applies to students who take MATH 123 and 216. The thirteen-credit maximum applies to students who take the MATH 121and 122 calculus options and the MATH 363-364 statistics option.

**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)

Complete a minor from one of the following areas from: **7-18**  
 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: enough credits beyond those listed above to total 120 credits.**

**Total Degree Requirements:** **120**

- Total Degree Requirements:**
- (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.

**Rationale:** The following errors were made last spring: COSC 427 should also have been on the list of Numerical Methods courses. Footnote one should have the last two sentences deleted. The credits for a mathematics minor should have been 7-18. The footnote after select 3cr from the following should be numbered (5) instead of (4).

**Current Program:**

**Bachelor of Science- Computer Science/ Information Assurance Track**

**Liberal Studies:** As outlined in the Liberal Studies section with the following specifications: **50**  
**Social Science:** CRIM 101 (1)  
**Mathematics:** MATH 123 (1)  
**Liberal Studies Electives** 4cr, MATH 216 (2), 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	Intro to Database Management Systems	3cr
COSC 380	Seminar on the Computer Profession	1cr

**Proposed Program:**

**Bachelor of Science- Computer Science/ Information Assurance Track**

**Liberal Studies:** As outlined in the Liberal Studies section with the following specifications: **50**  
**Social Science:** CRIM 101 (1)  
**Mathematics:** MATH 123 (2)  
**Liberal Studies Electives:** 4cr, MATH 216 (2), 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	Intro to Database Management Systems	3cr
COSC 380	Seminar on the Computer Profession	1cr



COSC 480	Seminar on Technical Topics	1cr
<b>Information Assurance Required Courses:</b>		
COSC 316	Cybersecurity Basics	3cr
COSC 356	Network Security	3cr
Select one of the following:		
COSC 320	Software Engineering Practice	3cr
COSC 493	Internship (Information Assurance)	12cr(1)
<b>Controlled Electives:</b> Select 3sh 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 (only sections approved for majors)	3cr
IFMG 382	Auditing for EDP Systems	3cr
<b>Upper-Level Electives:</b> Select 3sh from the following:		
COSC 415	Internet Architecture and Programming	3cr
COSC 432	Operating Systems	3cr
COSC 427	Cryptography	3cr
COSC 482	Independent Study	3cr
COSC 400-level course with department approval		3cr

**Minor in Criminology 15(1)**

<b>Other Requirements:</b>		<b>6-19</b>
<b>Additional Writing:</b>		
ENGL 322	Technical Writing	3sh
Foreign Language Intermediate Level		0-6cr
<b>Additional Mathematics:</b>		3cr(2)
MATH 219	Discrete Mathematics	

**Free Electives: enough credits beyond those listed above to total 120 credits.**

**Total Degree Requirements: 120**

- (1) CRIM 101 (taken as part of the social science requirement) is counted as part of the 18cr Criminology minor. Fifteen (15) additional credits of CRIM are required.
- (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. The three-credit minimum applies to students who take MATH 123 and 216. The nine-credit maximum applies to students who do not take MATH 123 and MATH 216 but choose alternatives in addition to MATH 219.
- (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 approved, COSC 380 may be taken in the immediately preceding semester.

COSC 480	Seminar on Technical Topics	1cr
<b>Information Assurance Required Courses:</b>		
COSC 316	Cybersecurity Basics	3cr
COSC 356	Network Security	3cr
Select one of the following:		
COSC 320	Software Engineering Practice	3cr
COSC 493	Internship (Information Assurance)	12cr(3)
<b>Controlled Electives:</b> Select 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 (only sections approved for majors)	3cr
IFMG 382	Auditing for EDP Systems	3cr
<b>Upper-Level Electives:</b> Select 3cr from the following:		
COSC 415	Internet Architecture and Programming	3cr
COSC 432	Operating Systems	3cr
COSC 427	Cryptography	3cr
COSC 482	Independent Study	3cr
COSC 400-level course with department approval		3cr

**Minor in Criminology 15(1)**

<b>Other Requirements:</b>		<b>6-12</b>
<b>Additional Writing:</b>		
ENGL 322	Technical Writing	3cr
Foreign Language Intermediate Level		0-6cr
<b>Additional Mathematics:</b>		3cr(2)
MATH 219	Discrete Mathematics	

**Free Electives: enough credits beyond those listed above to total 120 credits.**

**Total Degree Requirements: 120**

- (1) CRIM 101 (taken as part of the social science requirement) is counted as part of the 18cr Criminology minor. Fifteen (15) additional credits of CRIM are required.
- (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.
- (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 approved, COSC 380 may be taken in the immediately preceding semester.

**Rationale:** The following errors were made: After Mathematics 123 it should be (2) and footnote one should be shortened as above.

**8. Department of Music—Course and Program Revision (Resubmits)**

**PASSED**

**Current Catalog Description:**

**APMU Applied Music (Major Area ) Instrument/Voice I-VIII var 2 or 4 cr**

**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 (2 cr) for students enrolled in the B.S. and B.A. degree programs. Weekly one-hour lessons (4 cr) are given for students enrolled in the B.F.A. degree program only.

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, 357, 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 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. Baritone Horn 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

### **Proposed Catalog Description:**

#### **APMU Applied Music (Major Area ) Instrument/Voice I-VIII**

**var 2 or 4 cr**

**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 (2 cr) for students enrolled in the B.S. and B.A. degree programs. Weekly one-hour lessons (4 cr) are given for students enrolled in the B.F.A. degree program only.

#### **(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 one semester hour 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, 357, 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 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. Baritone Horn 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

**Rationale:** The statements about conditions for those taking a minor area were omitted from what was forwarded to the Trustees last spring.

**Current Program:**

**BS in Education—Music Education (\*)**

**Liberal Studies:** As outlined in Liberal Studies section with the following specifications:

**Mathematics:** 6cr, MATH 101 or 110; MATH 217

**Humanities:** HIST 195 (section for music majors)  
 MUHI 102 (music education majors only)

**Fine Arts:** fulfilled by courses in the major

**Natural Science:** Option I recommended

**Social Science:** PSYC 101

**Liberal Studies Electives:** 3cr, MUHI 301, no courses with MUSC prefix

**Professional Education Sequence:**

EDSP 102	Educational Psychology	3sh
EDUC 242	Pre-student Teaching I	1cr
EDUC 342	Pre-student Teaching 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: (\*\*)**

**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	7 semesters of Recital Attendance	0cr

Concentration area courses: (select one concentration)

**Vocal Concentration**

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 351/3/4 Diction Classes

**Instrumental Concentration**

MUSC 151-2	Class Voice I & II	2cr
MUSC 153-4	Class Piano I & II	2cr
APMU 124	Applied Piano Jury C	0cr
MUSC 155, 157, 159, 161	Class Instrument I	4cr
<b>Controlled Electives:</b> (choose electives from the following to create a total of 51cr)		
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

**Proposed Program:**

**BS in Education—Music Education (\*)**

**48 Liberal Studies:** As outlined in Liberal Studies section with the following specifications: **48**

**Mathematics:** 6cr, MATH 101 or 110; MATH 217

**Humanities:** HIST 195 (section for music majors)  
 MUHI 102 (music education majors only)

**Fine Arts:** fulfilled by courses in the major

**Natural Science:** Option I recommended

**Social Science:** PSYC 101

**Liberal Studies Electives:** 3cr, MUHI 301, no courses with MUSC prefix

**27 Professional Education Sequence:**

EDSP 102	Educational Psychology	3sh
EDUC 242	Pre-student Teaching I	1cr
EDUC 342	Pre-student Teaching 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

**51 Major: (\*\*)**

**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	7 semesters of Recital Attendance	0cr

Concentration area courses: (select one concentration)

**Vocal Concentration**

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 351/3/4 Diction Classes

**Instrumental Concentration**

MUSC 151-2	Class Voice I & II	2cr
MUSC 153-4	Class Piano I & II	2cr
APMU 124	Applied Piano Jury C	0cr
MUSC 155, 157, 159, 161	Class Instrument I	4cr
<b>Controlled Electives:</b> (choose electives from the following to create a total of 51cr)		
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	2cr
MUSC 224	Jazz Improvisation	2cr
MUSC 306	Counterpoint	2cr
MUSC 309	Orchestration	2cr
MUSC 312 /313	Choral/Instrumental Conducting	3cr
MUSC 315	Theory V	2cr
MUSC 340	Instrument Repair	2cr
MUSC 411	Composition	1cr
MUSC 493	Music Internship	1cr

**Total Degree Requirements:****126**

(\* ) See requirements leading to teacher certification in the catalog section on Academic Policies, "Admission to Teacher Education."

(\*\*) Students may satisfy any Theory Class or Class Instrument/Minor Instrument requirement by:

1. 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.
2. 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.

MUSC 163	Class Guitar I	1cr
MUSC 224	Jazz Improvisation	2cr
MUSC 300	Black Music in America and Diaspora	2cr
MUSC 306	Counterpoint	2cr
MUSC 309	Orchestration	2cr
MUSC 312 /313	Choral/Instrumental Conducting	3cr
MUSC 315	Theory V	3cr
MUSC 340	Instrument Repair	2cr
MUSC 411	Composition	1cr
MUSC 493	Music Internship	1cr

**Total Degree Requirements:****126**

(\* ) See requirements leading to teacher certification in the catalog section on Academic Policies, "Admission to Teacher Education."

(\*\*) Students may satisfy any Theory Class or Class Instrument/Minor Instrument requirement by:

1. 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.
2. 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.

**Rationale:** MUSC 300 was missing under controlled electives and the title of Class Guitar was incorrect.

**9. Department of Chemistry—Program Revision (120 Resubmit)****PASSED****Current Program:****BS in Education—Chemistry (\* )**

**Liberal Studies:** As outlined in the Liberal Studies section with the following specifications:

**Mathematics:** MATH 123, 124

**Natural Sciences:** PHYS 111-121 and 112-122

**Social Science:** PSYC 101

**Liberal Studies Electives:** 0cr

**College:****29****Professional Education Sequence:**

COMM 103	Digital Instructional Technology	3cr
EDSP 102	Educational Psychology	3cr
EDSP 477	Assessment of Student Learning: Design and Interpretation of Educational Measures	3cr
EDEX 301	Education of Students with Disabilities in an Inclusive Secondary Setting	2cr
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

**Proposed Program:****BS in Education—Chemistry (\* )**

**Liberal Studies:** As outlined in the Liberal Studies section with the following specifications:

**Mathematics:** MATH 123, 124

**Natural Sciences:** PHYS 111-121 and 112-122

**Social Science:** PSYC 101

**Liberal Studies Electives:** 0cr

**College:****29****Professional Education Sequence:**

COMM 103	Digital Instructional Technology	3cr
EDSP 102	Educational Psychology	3cr
EDSP 477	Assessment of Student Learning: Design and Interpretation of Educational Measures	3cr
EDEX 301	Education of Students with Disabilities in an Inclusive Secondary Setting	2cr
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 from the following list: CHEM 322, 342, 344, 351, 410, 411, BIOC 301, 311 4cr

**Other Requirements: 8**  
 BIOL 111 Principles of Biology I 4cr  
 GEOS 111 **or** 113 Earth Science for Educators I or II 3cr  
 GEOS 112 **or** 114 Earth Science for Educators Lab I or II 1cr

**Free Electives: enough credits beyond those listed above to total 120 credits.**

**Free Electives: enough credits beyond those listed above to total 120 credits.**

**(#)Total Degree Requirements: 120**

- (\* ) See requirements leading to teacher certification, titled "Admission to Teacher Education," in the College of Education and Educational Technology section of this catalog.
- (1) CHEM 111 and 112 can be substituted for CHEM 113 and 114 respectively for the B.S. in Education – Chemistry degree.
- (2) A minimum of 6sh of controlled electives, including either CHEM 351 or BIOC 301, is required for the ACS certified degree in Chemistry Education.
- (#) See advisory paragraph "Timely Completion of Degree Requirements" in the section on Requirements" for Graduation.

**Total Degree Requirements: (3) 120**

- (\* ) See requirements leading to teacher certification, titled "Admission to Teacher Education," in the College of Education and Educational Technology section of this catalog.
- (1) CHEM 111 and 112 can be substituted for CHEM 113 and 114 respectively for the B.S. in Education – Chemistry degree.
- (2) A minimum of 6sh of controlled electives, including either CHEM 351 or BIOC 301, is required for the ACS certified degree in Chemistry Education.
- (3) See advisory paragraph "Timely Completion of Degree Requirements" in the section on Requirements for Graduation.

**Rationale:** The controlled electives and other requirements were omitted from the program submitted before.

**10. Department of French and German—Program Revision (120 Resubmit)**

**PASSED**

**Current Program:**

**BA—German for International Trade**

**Liberal Studies:** As outlined in the Liberal Studies section with the following specifications:

**Mathematics:** MATH 121  
**Social Sciences:** ECON 121

**Liberal Studies Electives:** MATH 214, 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 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) 6cr(1)

**Proposed Program:**

**BA—German for International Trade**

**Liberal Studies:** As outlined in the Liberal Studies section with the following specifications:

**Mathematics:** 3cr, any LBST math course except MATH 217  
**Social Sciences:** ECON 121

**Liberal Studies Electives:** 9cr, BTED/COSC/ IFMG 101. ECON 122, MATH 214, 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 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) 6cr(1)

**Other Requirements: Business sequence**

ACCT 201	Accounting Principles I	3cr
ACCT 202	Accounting Principles II	3cr
BLAW 235	Introduction to Business Law	3cr
BTST 321	Business and Interpersonal Communications	3cr
FIN 310	Finance I	3cr
MGMT 310	Principles of Management	3cr
MGMT 350	International Business	3cr
MKTG 320	Principles of Marketing	3cr

**Free Electives:**

**Total Degree Requirements:**

- (1) Most students earn additional language semester hours (usually 12-14) in semester study abroad.

**36 Other Requirements: Business sequence (2)**

ACCT 201	Accounting Principles I	3cr
ACCT 202	Accounting Principles II	3cr
BLAW 235	Introduction to Business Law	3cr
BTST 321	Business and Interpersonal Communications	3cr
FIN 310	Finance I	3cr
MGMT 310	Principles of Management	3cr
MGMT 350	International Business	3cr
MKTG 320	Principles of Marketing	3cr

**0 Free Electives:**

**124 Total Degree Requirements:**

- (1) Most students earn additional language semester hours (usually 12-14) in semester study abroad.
- (2) Students not majoring in business may count a maximum of 30cr in business coursework towards the 120cr degree minimum. Business credits in excess of 30 will be permitted only as semester hours beyond the 120 required for graduation.

**Rationale:** The number of courses in the business sequence had been reduced in the spring, but the total credits remained 36 instead of 24. The (2) was also missing after Business sequence.

**11. Department of Hospitality Management—Program Revision (120 Resubmit)**

**PASSED**

**Current Program:  
Bachelor of Science- Hospitality Management**

**Liberal Studies:** As outlined in the Liberal Studies section with the following specifications:  
**Mathematics:** MATH 101 or higher  
**Natural Sciences:** Option I  
**Social Science:** ECON 101, PSYC 101  
**Health and Wellness:** FDNT 143  
**Liberal Studies Electives:** 3cr, no course with HRIM prefix

<b>Major:</b>		<b>44</b>	<b>Major:</b>
<b>Required Courses:</b>			<b>Required Courses:</b>
HRIM 101	Introduction to the Hospitality Industry	3cr	HRIM 101 Introduction to the Hospitality Industry
HRIM 130	Hospitality Sanitation and Security	3cr	HRIM 130 Hospitality Sanitation and Security
HRIM 150	Principles of Hospitality Management	3cr	HRIM 150 Principles of Hospitality Management
HRIM 256	Human Resources in the Hospitality Industry	3cr	HRIM 256 Human Resources in the Hospitality Industry
HRIM 259	Hospitality Purchasing	3cr	HRIM 259 Hospitality Purchasing
HRIM 265	Hospitality Cost Management	3cr	HRIM 265 Hospitality Cost Management
HRIM 310	Professional Development in the Hospitality Industry	2cr	HRIM 310 Professional Development in the Hospitality Industry
HRIM 313	Food Production and Service	4cr	HRIM 313 Food Production and Service
HRIM 320	Hospitality Marketing	3cr	HRIM 320 Hospitality Marketing
HRIM 330	Applications of Food Production and Service	4sr	HRIM 330 Applications of Food Production and Service
HRIM 335	Legal Issues in Hospitality	3cr	HRIM 335 Legal Issues in Hospitality
HRIM 413	Advanced Food Production and Service	4cr	HRIM 413 Advanced Food Production and Service
HRIM 470	Hospitality Business Model	3cr	HRIM 470 Hospitality Business Model
HRIM 493	Internship	3cr(1)	HRIM 493 Internship

**Controlled Electives:**  
Sixteen credits of non-required HRIM prefix courses

**Other Requirements:**  
ACCT 201 Accounting Principles I  
FNLG ---- Foreign Languages

**Total Degree Requirements:**

- (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.
- (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.

**Proposed Program:  
Bachelor of Science-Hospitality Management**

**48 Liberal Studies:** As outlined in the Liberal Studies section with the following specifications:  
**Mathematics:** MATH 101 or higher  
**Natural Science:** Option I  
**Social Science:** ECON 101. PSYC 101  
**Health and Wellness:** FDNT 143  
**Liberal Studies Electives:** 3cr, no course with HRIM prefix

<b>Major:</b>		<b>44</b>	<b>Major:</b>
<b>Required Courses:</b>			<b>Required Courses:</b>
HRIM 101	Introduction to the Hospitality Industry	3cr	HRIM 101 Introduction to the Hospitality Industry
HRIM 130	Hospitality Sanitation and Security	3cr	HRIM 130 Hospitality Sanitation and Security
HRIM 150	Principles of Hospitality Management	3cr	HRIM 150 Principles of Hospitality Management
HRIM 256	Human Resources in the Hospitality Industry	3cr	HRIM 256 Human Resources in the Hospitality Industry
HRIM 259	Hospitality Purchasing	3cr	HRIM 259 Hospitality Purchasing
HRIM 265	Hospitality Cost Management	3cr	HRIM 265 Hospitality Cost Management
HRIM 310	Professional Development in the Hospitality Industry	2cr	HRIM 310 Professional Development in the Hospitality Industry
HRIM 313	Food Production and Service	4cr	HRIM 313 Food Production and Service
HRIM 320	Hospitality Marketing	3cr	HRIM 320 Hospitality Marketing
HRIM 330	Applications of Food Production and Service	4sr	HRIM 330 Applications of Food Production and Service
HRIM 335	Legal Issues in Hospitality	3cr	HRIM 335 Legal Issues in Hospitality
HRIM 413	Advanced Food Production and Service	4cr	HRIM 413 Advanced Food Production and Service
HRIM 470	Hospitality Business Model	3cr	HRIM 470 Hospitality Business Model
HRIM 493	Internship	3cr(1)	HRIM 493 Internship

**16 Controlled Electives:**  
Sixteen credits of non-required HRIM prefix courses

**9-11 Other Requirements:**  
ACCT 201 Accounting Principles I  
FNLG ---- Foreign Languages

**120 Free Electives:**

**Total Degree Requirements:**

- (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.
- (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.

**Rationale:** The statement about Free Electives and its accompanying footnote reference was omitted from the April 29<sup>th</sup> agenda.

**12. Department of Art—Catalog Description Change, New Courses, Course Revisions, and Program Revision**

**TABLED**

**A. Catalog Description Revision**

**Current Catalog Description:**

The Department of Art provides both general and special courses in art, directed toward the development of the student's creative and expressive abilities. Degrees offered are the Bachelor of Arts with tracks in either Art History or Art Studio, the Bachelor of Fine Arts in Art Studio, and the Bachelor in Science in Education in Art Education. 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.

The mission of the BA in Art/Art History degree 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 arts 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 department offers a cooperative program with the Art Institute of Pittsburgh. Students interested in commercial art, with departmental approval, may earn credit towards their major at the Art Institute.

All Art majors are obliged to fulfill the university requirements for Liberal Studies. Art Education Majors must maintain a 2.6 cumulative GPA, and this is a prerequisite to student teaching.

An exchange program exists between the IUP Department of Art and the National Art Academies of Slovenia and Croatia. Qualified and highly skilled juniors, first-semester seniors, and graduate students may gain participation through screening and professor nomination.

A minor in art is available, consisting of at least 18 semester hours in art courses approved by the chairperson of the department of Art.

Acceptance by the department of Art as a major requires the submission of a portfolio and approval by the portfolio committee. Detailed information will be sent to the applicant upon request

### **Proposed Catalog Description:**

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-Studio, Bachelor of Arts-Art/Studio, Bachelor of Arts-Art/History, and Bachelor of Science in Education-Art Education.

Students pursuing studio or art education degrees are initially admitted into the Art 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-Studio degree are initially admitted into the Bachelor of Arts-Art/Studio degree and may transfer into the BFA-Studio program at the end of the sophomore year by successfully completing the BFA Sophomore Review.

The Bachelor of Fine Arts-Studio degree 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-Studio degree offers three studio emphasis tracks. These three tracks include: the Two-dimensional Emphasis Track, (including: Drawing, Graphic Design, Painting and Printmaking); the Three-dimensional Emphasis Track, (including: Ceramics, Fibers, Metals, Sculpture, and Wood and Furniture



Design); and the Individualized Studio Emphasis Track, (where students are able to build a degree program to meet specialized individual needs).

The Bachelor of Arts-Art/Studio offers students a choice between a broad range of advanced studio options or a very specialized emphasis in only one studio area.

The mission of the Bachelor of Arts-Art/History degree 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-Art Education degree 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 maintain a 3.0 overall G.P.A. Bachelor of Fine Arts-Studio majors must maintain a 2.5 G.P.A. average within their studio art courses.

An Art Minor is available to interested majors from other University disciplines. The Art Minor consists of at least 18 credits hours in art courses approved by the Art Department Chairperson.

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 Internet email through the IUP, Department of Art web site at, ([www.iup.art.edu](http://www.iup.art.edu)).

**Rationale:** The catalog description is being revised to reflect changes in the curriculum.

## **B. Five New Courses**

### **1) 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.

**Rationale:** The addition of this course will enhance the metals program with the Department of Art by offering additional an additional course that is typical in other university art programs. It is intended for art majors working towards a B.A., B.F.A., or B.S. ED.

### **2) ART 355 Intermediate Graphic Design I**

**0c-6l-3cr**

**Prerequisite:** ART 218

Intermediate level study in graphic design focusing on digital illustration, complex typography and publication design. Studio experience will focus on current professional 2D digital illustration software.

**Rationale:** This course for art majors will be the second course in the revised Graphic Design art program. It is intended to prepare student for employment as professional graphic designers. This class has an emphasis on the creation of the illustrative form.

**3) ART 356 Intermediate Graphic Design II 0c-6l-3cr**

**Prerequisites:** ART 218

**Recommended:** ART 355

Intermediate level study in graphic design researching publication design, grid systems, and multi-page design. Studio experience will focus on current professional software used for publication design.

**Rationale:** This course for art majors will be the third course in the revised Graphic Design art program. It is intended to prepare student for employment as professional graphic designers. This class has an emphasis on the creation of publication design.

**4) ART 400 Senior Thesis and Professional Practicum 3c-01-3cr**

**Prerequisites:** BFA-Studio Majors only, Senior Status

Development of a senior thesis exhibition project and investigation of professional practices for the visual artist. Major issues will include the development of a thesis exhibition, resume development, an artist's professional image, portfolio development, marketing skills, career opportunities and grant writing.

**Rationale:** A new 3 credit studio course that is added as an advanced level studio required course. It is to be taken by BFA Studio majors only, in the Senior year and culminates in the BFA Thesis Exhibition.

**5) ART 456 Advanced Graphic Design II var-3, 6cr**

**Prerequisites:** ART 218, 355, Permission of the instructor is a prerequisite for 6cr studio

**Recommended:** ART 356, 455

An exploration of Web Page and Interactive Design. Studio experience will focus on current professional web and interactive software.

**Rationale:** This course for art majors is the final course in the revised Graphic Design art program. This course has an emphasis on interactive design.

**C. Course Revisions and Catalog Description Changes:**

**1) Course Revision and Catalog Description Change:**

**Current Catalog Description:**

**ART 218 Introduction to Graphic Design**

**0c-6l-3cr**

Students explore various techniques and their applications to such commercial art projects as package design, trademark, and other design problems. Lettering is stressed, both instant type and hand lettering.

**Proposed Catalog Description:**

**ART 218 Introduction to Graphic Design**

**0c-6l-3cr**

**Prerequisites:** ART 112, 114

A survey of graphic design, exploring creative problem solving techniques. Students are introduced to the importance of concept development, aesthetics, symbolism, typography and computer method. Studio experience will provide a wide range of experiences for the beginning graphic design student. Projects, problems, and exercises will deal with skills, principles, application, and theory.

**Rationale:** The course has been in existence for 20+ years and has never been revised to reflect changes in design technology such as desktop computing, software-based problem solving etc. Prerequisites have been added to ensure students are prepared for the course.

**2) Course Revision and Catalog Description Change:**

**Current Catalog Description:**

**ART 455 Advanced Graphic Design I**

**0c-6l-3cr**

**Prerequisites:** ART 218

Stresses advanced techniques in layout and illustration. The student explores ideas, such as creation of trademarks and how products are designed. Layouts are analyzed as to their quality. Package design is studied.

**Proposed Catalog Description:**

**ART 455 Advanced Graphic Design I**

**var-3, 6cr**

**Prerequisites:** ART 218, 355, Permission of the instructor is a prerequisite for 6cr studio

**Recommended:** ART 356

An introduction to 3 dimensional modeling and rendering for illustration and animation. Studio experience will focus on current professional 3D software.

**Rationale:** The content of course has been revised in light of the expanded courses in design and to reflect the changes in technology that have occurred in the field since the course was introduced. The credit notation is revised to reflect long standing practice for the course.

**D. Program Revision:**

**Current Program:**

**Bachelor of Fine Arts – Studio**

**Liberal Studies:** As outlined in Liberal Studies section with the following specifications:

**Fine Arts:** Fulfilled by Art History (ARHI 205) counted in major.

**Liberal Studies Electives:** ARHI 207, no courses with ART elective.

**Major:**

**Foundation Required:**

ARHI 100	Arts of the 20th Century	3cr
ART 111	Figure Drawing	3cr
ART 112	Fundamentals of Drawing	3cr
ART 113	Three-Dimension Design	3cr
ART 114	Color and Two-Dimensional Design	3cr

**Foundation Electives:**

**(Select 5 of the following 8 courses)**

ART 211	Painting	3cr
ART 213	Woodworking: Function and Form	3cr
ART 214	Ceramics	3cr
ART 215	Sculpture	3cr
ART 216	Basic Metals	3cr
ART 217	Printmaking	3cr
ART 218	Graphic Design	3cr
ART 219	Fibers	3cr

**Art History Required:**

ARHI 205	Ancient to Medieval Art	3cr(1)
ARHI 207	Renaissance to Modern Art	3cr(2)
ARHI 211	Modern Art	3cr(3)
ARHI 413	Senior Seminar	3cr

**Proposed Program:**

**Bachelor of Fine Arts – Studio**

**Liberal Studies:** As outlined in Liberal Studies section with the following specifications:

**Mathematics:** 3cr

**Fine Arts:** ARHI 205

**Liberal Studies Electives:** 3cr, ARHI 207, no other courses with ARHI prefix.

**Major:**

**Foundation Required:**

ART 111	Figure Drawing	3cr
ART 112	Fundamentals of Drawing	3cr
ART 113	Three-Dimension Design	3cr
ART 114	Color and Two-Dimensional Design	3cr

**Level II Studio Electives:**

**(Select 6 of the following 8 courses)**

ART 211	Painting	3cr
ART 213	Woodworking: Function and Form	3cr
ART 214	Ceramics	3cr
ART 215	Sculpture	3cr
ART 216	Basic Metals	3cr
ART 217	Printmaking	3cr
ART 218	Graphic Design	3cr
ART 219	Fibers	3cr

**Art History Required:**

9	ARHI 100	Arts of the 20 <sup>th</sup> Century	3cr
		Controlled Art History Elective:	3cr
		(Select one course in the last 3 semesters:	
		ARHI 413, 417, 423, or 425. Course must be	
		designated /W/)	

**50-52**

**15**

**15**

**9**

**48**

**12**

**18**

**6**

**Advanced Studio Required: (4)**  
 Primary Advanced Studio Concentration 18cr  
 Minor Advanced Studio Concentration 9cr  
 Courses from list: ART 421, 451, 452, 453, 454, 455, 457, 459, 460, 481, 493 (5)

**Free Electives** 6-8

**(#) Total Degree Requirements** 124-126

- (1) Credit hours counted in Liberal Studies Fine Arts requirement.
- (2) Credit hours counted in Liberal Studies electives.
- (3) ARHI 222 may be substituted for ARHI 211
- (4) The foundation-level course must be successfully completed before a student will be permitted to enroll in the 6cr component of that specific studio course. Permission of the instructor is a prerequisite to all 6cr advanced courses.
- (5) Inclusion of internship semester hours toward any portion of fulfillment of degree requirements must be approved by the departmental chair and student's major advisor. Approval must be obtained in writing prior to enrollment.
- (#) See advisory paragraph "Timely Completion of Degree Requirements" in the section on Requirements for Graduation.

**27 Advanced Studio Required:** 27

**(Select 1 of 3 Advanced Studio Emphasis Tracks)**

**Three-Dimensional Studio Track:**

Advanced 3-D studios include: ART 316, 451, 452, 453, 459, 460, 481, 493, (1) (2)

Primary Advanced Studio (choose 1 studio area above) 15cr

Synthesis Advanced Studios (choose 3 other 3-D advanced studios) 9cr

Two-Dimensional Studio (choose 1 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 1 studio area above) 15cr

Synthesis Advanced Studios (choose 3 other 2-D advanced studios) 9cr

Three-Dimensional Studio (choose 1 from advanced 3-D studio options) 3cr

**Individualized Advanced Studio Track:** 27cr

(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.)

**Controlled Advanced Studio Electives:** 6

Select from list: 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

- (1) Students must complete 3cr within an advanced studio before permission will be granted to enroll in the 6 cr component of the advanced level. Permission of the instructor is a prerequisite to all 6cr advanced courses.
- (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.
- (3) To enter program, art major must successfully complete the BFA Sophomore Review and have minimum 2.5 G.P.A in studio art courses.
- (4) Student must maintain an overall 2.5 G.P.A. in studio art courses to graduate.
- (#) See advisory paragraph "Timely Completion of Degree Requirements" in the section on Requirements for Graduation.

**Rationale:** The old BFA major/minor approach to upper level advanced courses totaling 27 credits is restructured into a new 3 track major emphasis approach which totals 36 credits and includes the choices of: (A) Two-Dimensional Emphasis Track, (B) Three-Dimensional Emphasis Track, and (C) the Individualized Emphasis Track. All major tracks will be increased to 36 credits to meet NASAD accreditation standards. Students will benefit by having multiple faculty viewpoints from which to learn under the new major track system. The previous 'one professor' approach limited students to one faculty viewpoint for their entire major studio experience and was cited as a problem by NASAD evaluators.

The total credits for the BFA degree will decrease to 120 credits through the following changes: Art History requirements are reduced to 12 from 15 credits; ART 400 Senior Thesis and Professional Practicum, 3 credits,

is added; Free Elective credits are changed to Controlled Studio Electives and reduced to 6 from 6-8 credits; an additional 3 credits is added in Level II Studio courses; and University Liberal Studies Requirements are reduced from 52 to 48 credits.

ARHI 100 Arts of the 20<sup>th</sup> Century is moved from the Foundation Studio Requirements to Art History Requirements. ARHI 413 Senior Seminar is no longer required. It is now included as part of Controlled Advanced Art History Electives with ARHI 417, 423, and 425. ARHI 211 Modern Art has been merged with ARHI 206 Renaissance to Baroque Art to form a new course, ARHI 207 Renaissance to Modern. Additional credits have been added in Level II Studio requirements, increasing the credit requirements to 18 from 15. These additional credits at the introductory studio level will broaden the student's knowledge of different art processes and media.

**Current Program**

**Bachelor of Arts – Art/Studio**

**Liberal Studies:** As outlined in Liberal Studies section with the following specifications:  
**Fine Arts:** Fulfilled by Art History (ARHI 205) counted in major.  
**Liberal Studies Electives:** ARHI 207, no courses with ART elective.

**Major:**

**Foundation Required:** **15**

- ARHI 100 Arts of the 20th Century 3cr
- ART 111 Figure Drawing 3cr
- ART 112 Fundamentals of Drawing 3cr
- ART 113 Three-Dimension Design 3cr
- ART 114 Color and Two-Dimensional Design 3cr

**Foundation Electives:** **15**

**(Select 5 of the following 8 courses)**

- ART 211 Painting 3cr
- ART 213 Woodworking: Function and Form 3cr
- ART 214 Ceramics 3cr
- ART 215 Sculpture 3cr
- ART 216 Basic Metals 3cr
- ART 217 Printmaking 3cr
- ART 218 Graphic Design 3cr
- ART 219 Fibers 3cr

**Art History Required:**

- ARHI 205 Ancient to Medieval Art 3cr(1)
- ARHI 207 Renaissance to Modern Art 3cr(2)
- ARHI 211 Modern Art 3cr(3)
- ARHI 413 Senior Seminar 3cr  
(to be taken during senior year)

**Advanced Studio Required: (4)** **21**

Advanced Studio courses to be selected from the following: ART 421, 451, 452, 453, 454, 455, 457, 459, 460, 481, 493 (5)

**Free Electives:** **12-14**

**Total Degree Requirements:** **124**

- (1) Credits counted in Liberal Studies Fine Arts requirement.
- (2) Credit hours counted under Liberal Studies electives.
- (3) ARHI 222 may be substituted for ARHI 211.
- (4) The foundation-level course must be successfully completed before a student will be permitted to enroll in the 6cr component of that specific studio course. Permission of the instructor is a prerequisite to all 6cr advanced courses.
- (5) Inclusion of internship semester hours toward any portion of fulfillment of degree requirements must be approved by the departmental chair and student’s major advisor. Approval must be obtained in writing prior to enrollment.
- (#) See advisory paragraph “Timely Completion of Degree Requirements” in the section on Requirements for Graduation.

**Proposed Program**

**Bachelor of Arts – Art/Studio**

**Liberal Studies:** As outlined in Liberal Studies section with the following specifications: **48**  
**Mathematics:** 3cr  
**Fine Arts:** ARHI 205  
**Liberal Studies Electives:** 3cr, ARHI 207, no other courses with ARHI prefix.

**Major:**

**Foundation Required:** **12**

- ART 111 Figure Drawing 3cr
- ART 112 Fundamentals of Drawing 3cr
- ART 113 Three-Dimension Design 3cr
- ART 114 Color and Two-Dimensional Design 3cr

**Level II Studio Electives:** **18**

**(Select 6 of the following 8 courses)**

- ART 211 Painting 3cr
- ART 213 Woodworking: Function and Form 3cr
- ART 214 Ceramics 3cr
- ART 215 Sculpture 3cr
- ART 216 Basic Metals 3cr
- ART 217 Printmaking 3cr
- ART 218 Graphic Design 3cr
- ART 219 Fibers 3cr

**Art History Required:** **6**

- 9 ARHI 100 Arts of the 20<sup>th</sup> Century 3cr
- Controlled Art History Electives: 3cr  
(Select one courses in the last 3 semesters: ARHI 413, 417, 423, or 425. Course must be designated /W/)

**Advanced Studio Required:** **21**

Advanced Studio courses to be selected from the following: ART 316, 355, 356, 421,451, 452, 453, 454, 455, 456, 457, 459, 460, 481, 493 (1) (2)

**Free Electives:** **15**

**Total Degree Requirements:** **120**

- (1) Students must complete 3cr within an advanced studio before permission will be granted to enroll in the 6 cr component of the advanced level. Permission of the instructor is a prerequisite to all 6cr advanced courses.
- (2) Inclusion of internship semester hours toward any portion of fulfillment of degree requirements must be approved by the departmental chair and student’s major advisor. Approval must be obtained in writing prior to enrollment.
- (#) See advisory paragraph “Timely Completion of Degree Requirements” in the section on Requirements for Graduation

**Rationale:** In the new BA program, students will be required to select 6 of the 8 introductory studio courses rather than 5 of the 8 under the old program, increasing the credit requirements to 18 from 15. These additional credits at the introductory studio level will broaden the student’s knowledge of different art processes and media. A total of 3 credits of new art courses are added, while Liberal Studies Requirements are decreased. The new total credit degree requirements will decrease to 120 credits. The same changes are made to Art History as above.

The new Bachelor of Arts-Studio curriculum has been revised to integrate new courses needed for the BFA, Studio with the BA, Art/Studio program. The BA, Art/Studio degree conforms to NASAD’s standards and it also offers students the ability to take a breadth of visual arts coursework, which is the intention of NASAD’s standards for this degree.

**13. Department of Nursing and Allied Health Professions—Catalog Description and Program Revisions, and New Track**

**PASSED**

**A. Program Revision (120 Resubmit)**

**Current Program:**

**BS—Nuclear Medicine Technology**

**Liberal Studies:** As outlined in the Liberal Studies section with the following specifications:

**Mathematics:** MATH 217

**Natural Science:** CHEM 101-102

**Social Science:** PSYC 101, SOC 151

**Liberal Studies Electives:** 9cr, BTED/COSC/IFMG 101, MATH 217, PHYS 111

**Major:**

**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:**

BIOL 105	Cell Biology	3cr
BIOL 150	Human Anatomy	3cr
BIOL 151	Human Physiology	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
ENGL 310	Public Speaking	1cr

**Free Electives: enough credits beyond those listed above to total 120 credits.**

**Total Degree Requirements:**

**120**

**Proposed Program:**

**BS—Nuclear Medicine Technology**

**51 Liberal Studies:** As outlined in the Liberal Studies section with the following specifications:

**Mathematics:** MATH 217

**Natural Science:** CHEM 101-102

**Social Science:** PSYC 101, SOC 151

**Liberal Studies Electives:** 9cr, BTED/COSC/IFMG 101, MATH 105, PHYS 111

**32 Major:**

**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

**18 Other Requirements: (2)**

BIOL 105	Cell Biology	3cr
BIOL 150	Human Anatomy	3cr
BIOL 151	Human Physiology	4cr
PHYS 121	Physics I Lab	3cr
PHYS 112	Physics II Lecture	3cr
PHYS 122	Physics II Lab	1cr
ENGL 310	Public Speaking	3cr

**Free Electives: enough credits beyond those listed above to total 120 credits. (3)**

**Total Degree Requirements:**

**120**

**Rationale:** Under LS Electives it should have been MATH 105 not 217. Footnote references (2) and (3) were missing as were all of the actual footnotes.

**B. Catalog Description Revision**

**Current Catalog Description:**

## **Respiratory Care**

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Respiratory therapists assist physicians in the care of patients who have respiratory system problems or illnesses that relate to breathing. Their assistance includes administering gaseous drugs and executing therapeutic procedures. Included are the operation and maintenance of specialized equipment.

The program leads to the Bachelor of Science degree in Respiratory Care. Presented jointly by IUP and the Western Pennsylvania Hospital in Pittsburgh, the program offers intensive theoretical and applied knowledge to produce highly skilled graduates who are prepared to enter the profession as therapists or instructors.

Two academic years of university studies, followed by two academic years of hospital studies and clinical practice, constitute the program. Students must earn a GPA of 2.25 in Natural Sciences and Mathematics courses to be considered for admission into the clinical years in Respiratory Care. However, since admission to the hospital is competitive, IUP cannot guarantee admission into the hospital program.

### **Proposed Catalog Description:**

## **Respiratory Care**

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The Bachelor of Science degree 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, Pennsylvania jointly offer this program. The program is fully accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) in collaboration with the Committee on Accreditation for Respiratory Care (CoARC). The program consists of two academic years of pre-clinical 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, PA. Students must 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 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.

### **C. Course Revisions, Credit Changes, and Catalog Description Changes**

#### **1) Current Catalog Description:**



**RESP 333 Respiratory Care Clinical Practice II****var-4cr**

Treatment procedures introduced in Clinical I are continued with greater emphasis on independence. Speciality rotations are added to broaden exposure to respiratory care and critical care.

**Proposed Catalog Description:****RESP 333 Respiratory Care Clinical Practice II****var-3cr**

Treatment procedures introduced in Clinical I are continued with greater emphasis on independence. Speciality rotations are added to broaden exposure to respiratory care and critical care.

**2) Current Catalog Description:****RESP 426 Respiratory Care Clinical Practice III****var-5cr**

Respiratory care treatment procedures are continued with emphasis on improving proficiency and refining skills. Students will make rounds with physicians.

**Proposed Catalog Description:****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 on advanced skills related to mechanical ventilation. Specialty rotations are continued.

**3) Current Catalog Description:****RESP 433 Respiratory Care Clinical Practice IV****var-5cr**

Rotations on treatment and intensive respiratory care are continued. Advanced rotations are included.

**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. Students are provided opportunities to develop leadership skills.

**Rationale:** One credit hour has been eliminated in each course and the catalog descriptions have been updated. Course objectives were clearly delineated. Clinical hours were adjusted to apply a guideline of 5 clock hours per one credit hour per week. The reduction was necessary to reduce the program to 120 total credits. Clearly stating course objectives brings the syllabuses in line with the university policy and will give the students a better understanding of course expectations. In previous years, there has been wide variability within the courses for planning clock hour to credit hour rotations. The new guidelines will provide students with the time necessary to meet course objectives and it is in line with the expectations of the program's accrediting agencies.

**D. Program Revision**

**Current Program:**

**Proposed Program:**

**B.S. –Respiratory Care**

**B.S. –Respiratory Care**

**Liberal Studies:** As outlined in Liberal Studies section with the following specifications: **45-47**  
**Humanities:** PHIL 222 recommended  
**Mathematics:** MATH 105 or higher level  
**Natural Science:** CHEM 101-102

**Liberal Studies:** As outlined in Liberal Studies section with the following specifications: **48**  
**Mathematics:** MATH 105 or higher level  
**Natural Science:** CHEM 101-102  
**Social Sciences:** PSYC 101, SOC 151, Non-Western course  
**Liberal Studies Electives:** 6cr, PHYS 151

**Social Sciences:** PSYC 101, SOC 151, non-Western course

**Synthesis:** not required

**Liberal Studies electives:** One course, BTED/COSC/IFMG 101 recommended

**Synthesis:** not required

**Writing Intensive:** not required

**Writing Intensive:** not required

**Major:**

**62**

**Major:**

**59**

**Required Courses: (1) (2)**

**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 4cr  
 RESP 334 Respiratory Care Instrumentation and Application 4cr  
 RESP 335 Patient Care Skills 3cr  
 RESP 336 Cardiopulmonary Evaluation and Clinical Correlation 4cr  
 RESP 337 Introduction to Pulmonary Function Studies 1cr  
 RESP 425 Clinical Case Studies 3cr  
 RESP 426 Respiratory Care Clinical Practice III 5cr  
 RESP 428 Essentials of Electrocardiography 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 5cr  
 RESP 434 Neonatal Respiratory Care 3cr  
 RESP 436 Respiratory Care Teaching 2cr  
 RESP 437 Methods in Critical Care 2cr  
 RESP 438 Cardiopulmonary Rehabilitation 1cr

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 Introduction to Pulmonary Function Studies 1cr  
 RESP 425 Clinical Case Studies 3cr  
 RESP 426 Respiratory Care Clinical Practice III 4cr  
 RESP 428 Essentials of Electrocardiography 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:**

**17**

**Other Requirements:**

**13**

**Science Courses:**

**Science Courses:**

BIOL 105 Cell Biology 3cr  
 BIOL 150 Human Anatomy 3cr  
 BIOL 151 Human Physiology 4cr  
 BIOL 241 General Microbiology 3cr  
 PHYS 151 Medical Physics Lecture 3cr  
 PHYS 161 Medical Physics Lab 1cr

BIOL 105 Cell Biology 3cr  
 BIOL 150 Human Anatomy 3cr  
 BIOL 151 Human Physiology 4cr  
 BIOL 241 General Microbiology 3cr

**Free Electives:**

**0**

**#Total Degree Requirements:**

**124-126**

**Total Degree Requirements:**

**120**

- (1) Qualified students are encouraged to elect RESP 342 Preceptorship in Respiratory Care in which case total credits would be 126-130.
- (2) RESP 300- and 400-level courses are completed at Western Pennsylvania Hospital in Pittsburgh. The courses are consistent with the requirements of, and the program is accredited by, Joint Review Committee for Respiratory Theory Education.
- # See advisory paragraph "Timely Completion of Degree Requirements" in catalog section on Requirements for Graduation.
- (1) RESP 300 and 400 level courses are completed at Western Pennsylvania Hospital in Pittsburgh.

**Rationale:** The catalog description change reflects an updating of the program information and inclusion of the CRT track. Moving PHYS 151 Medical Physics Lecture to the LS elective category helps reach the 48 credit minimum in Liberal Studies requirements. This course is already approved as a Natural Science Non laboratory course.

PHYS 161 Medical Physics Lab is deleted in order to meet the 120 credit minimum. PHYS 151 and 161 do not have to be taken together and successful completion of 151 is sufficient to meet accreditation requirements. Removing PHIL 222 and BTED/COSC/IFMG 101 as recommended Humanities and liberal studies elective provides the student with an opportunity to select from a broader range of courses in these categories.

**E. New Track**

**Bachelor of Science—  
Respiratory Care/Certified Respiratory Therapist Track**

**Liberal Studies:** As outlined in the Liberal Studies section with the following specifications: **48**

- Mathematics:** 3cr
- Liberal Studies Electives:** 6cr
- Synthesis:** not required
- Writing Intensive:** not required

**Major:** **60**

**RESP credits via articulation (1)** **33**

**Required Courses: (2)** **27**

RESP 425	Clinical Case Studies	3cr
RESP 426	Respiratory Care Clinical Practice III	4cr
RESP 428	Essentials of Electrocardiography	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** **120**

- (1) Students in the CRT track are exempt from the 100 and 300 level courses in the respiratory care major and will receive 33 credits via articulation.
- (2) RESP 400 level courses are completed at Western Pennsylvania Hospital School of Respiratory Care in Pittsburgh, PA.

**Rationale:** Historically, respiratory care practitioners have received the basic entry-level respiratory care education from three types of programs: an 18-month certificate program, a two-year associate degree program, or a baccalaureate degree program. The bachelor degree in respiratory care is the terminal degree in the profession. The Committee on Accreditation for Respiratory Care (CoARC) must accredit all programs. The program at IUP offers students these advanced experiences during the final year of clinical study. The National Board of Respiratory Care (NBRC) provides two levels of credentialing for the Respiratory Care practitioner: the entry-level credential, Certified Respiratory Therapist (CRT), and the advanced practitioner credential Registered Respiratory Therapist (RRT). Graduates from IUP's program are eligible to sit for both examinations upon graduation.

Currently CRTs who desire to earn the BS in respiratory care at IUP fulfill degree requirements set forth by the university and the department following the standard respiratory care curriculum sequence. This sequence was developed for students with no background in respiratory care. The academic requirements do not take into account those students with prior respiratory therapy education and relevant clinical experience. Subsequently, the CRT student may be required to enroll in courses that are repetitive to their previous educational experiences. The critical shortage of BS prepared respiratory therapists, and the national and local lack of specified tracks for the CRT makes it logical to develop a special track at IUP. Therefore, this proposal provides for a distinct track for CRTs who are seeking to obtain the advanced practice BS degree.

**APPENDIX B**  
**Library and Educational Services Committee**  
**Chair Johnson**

**FOR INFORMATION:**

**From the Library:**

The Library is still in the process of placing orders for new databases based upon last year's funding.

The Library is completing the cancellations of print journals, based upon last year's budget reductions.

In order to let students know about library services and new resources, an open house is being held in Stapleton Library from September 9th through 11th and students are urged to visit the exhibits and talk to staff.

**From Academic Technology Services:**

The IUP Community has received information about the following computing changes over the past few weeks:

- E-mail aliases available for students and employees
- Changes in the public labs (Johnson, Mack, Leonard)
- Changes to Testscoring procedures

Additional information about these is available from [www.iup.edu/ats](http://www.iup.edu/ats)

**APPENDIX C:  
University Senate Research Committee Report  
Chair Guth**

The USRC met on May 9, 2003 and reviewed proposals. The committee awarded \$20,275 in grants to the following individuals:

- Dr. Maali H. Ashamalla received \$1,500 to present two papers at two international conferences in Vancouver, Canada: “Crisis Management: The Critical Role of HR” at the International Conference of Academy of Business and Administrative Sciences and “Planning – Key Component of Crisis Management at the International Management Development Association.”
- Dr. Prashanth Nagendra Bharadwaj received \$1,500 for the “AACSB International/Keizai Koho Center 2003 Japan Study Tour.”
- Dr. Gary J. Bird received \$1,500 to be a visiting artist at the Saratov Conservatory in Saratov, Russia in October 2003.
- Dr. Carol Caraway received \$1,500 to present “Wittgenstein on the Structure of Justification: Breaking New Epistemological Ground” at the 26<sup>th</sup> International Wittgenstein Conference of the Austrian Ludwig Wittgenstein Society in Austria.
- Dr. Carmy Carranza received \$1,500 for her presentation, “An Early Entrance Experience that Retains Students and Generates \$” at the 16<sup>th</sup> International Conference on The First-Year Experience in Vancouver, Canada.
- Dr. Beverly Chiarulli received \$1,500 for her research at the Precolumbian Maya Site of Maax Na in Northwestern Belize.
- Dr. Victor Garcia received \$1,495 for his project, “New MAATI Partnerships with the Mushroom Industry in Southeastern Pennsylvania: Exploring and Developing Migrant-Specific Intervention and Prevention Substance Abuse Programs.”
- Dr. Malcolm Hayward received \$1,500 for presentation of his paper, “Globalization, Cultural Diversity, and Intellectual Property” at the International Conference on New Directions in the Humanities in Greece.
- Dr. Krys Kaniasty received \$1,500 to present two papers (“In the Aftermath of Natural Disaster, There is no Room for Bystanders” and “On How Disasters Weaken Interpersonal Bonds Attaching Communities Together”) at the 24<sup>th</sup> Annual Conference of Stress and Anxiety Research Society (STAR) in Lisbon, Portugal.
- Dr. Sally Lipsky received \$1,500 to present her paper, “Training Peer Educators via a Credit-Bearing Course” at the 16<sup>th</sup> International Conference on The First-Year Experience in Vancouver, Canada.
- Dr. Sarah Mantel received \$1,500 to present a lecture/recital entitled, “Katherine Hoover’s *Central American Songs: Women Moving Forward with Love, not Bitterness*” at the International College Music Society conference in Costa Rica.
- Dr. Linda Norris received \$1,500 to present her paper, “How to Use Film to Promote Critical Literacy in the Classroom” at the International Federation for the Teaching of English in Melbourne, Australia.
- Dr. Peter M. Sullivan received \$780 for his research project, “Visit to the Frederick B. Adams Collection, Drew University.”
- Dr. Susan Wheatley received \$1,500 to present a lecture/recital entitled, “Katherine Hoover’s *Central American Songs: Women Moving Forward with Love, not Bitterness*” at the International College Music Society conference in Costa Rica.

The first USRC meeting of the semester will be on September 16, 2003 at 3:15 p.m. in 317 Clark Hall. The chair election will take place and USRC proposals will be reviewed.

The Senate Fellowship Grants and University Senate Research Committee Awards (USRC) guidelines are now available on the Graduate School and Research website at <http://www.iup.edu/graduate/research/main/internalgrants.shtm>. Copies of the guidelines are also available in Room 113, Stright Hall. Senators are encouraged to provide this information to their departments.