

**University-Wide Undergraduate Curriculum Committee  
Co-Chairs Sechrist and Fair**

**FOR INFORMATION:**

The following courses were approved by the UWUCC to be offered as distance education courses:

- **ECON 421 Macroeconomic Analysis**
- **ECON 422 Microeconomic Analysis**
- **ENGL 327 Writing Creative Nonfiction**
- **FDED 440 Orientation to Teaching in Urban Centers**
- **MATH 316 Data Science Fundamentals**
- **MATH 418 Data Science Theory and Application**
- **PNAF 131 Introduction to Pan-African Studies**
- **SPAN/SAFE 221 Oral Communication in Spanish for Safety and Health**
- **SPAN/SAFE 231 Safety and Health Technical Reading and Writing in Spanish**
- **THTR 261 Simulation Performance**
- **THTR 362 Performance for Social Change**

**FOR ACTION:**

1. **Department of Chemistry—New Course, Credit Hour Change, Catalog Description Change, Program Revisions, Program Title Change, and Program Catalog Description Changes** **APSCUF Rep Council approved**

a. **New Course:**

**CHEM 107 Chemistry of Food and Beverages**

**Class Hours: 3**

**Lab Hours: 0**

**Credits: 3**

**Prerequisites:** None

Introduces the key concepts of general, organic, and biochemistry explained by their roles in food and beverages. Includes elements, molecules, bonding, functional groups and structural geometry, acids and bases, chemical equations and reactions, solutions, and gases. For non-science majors to fulfill the Liberal Studies natural science requirement.

**Rationale:** CHEM 107 will serve the needs of non-science majors who require a natural science non-laboratory course to meet their Liberal Studies requirements. A previous CHEM 281 Food Chemistry special topics lecture was successfully offered in 2009 and 2011 to CHEM, BIOC, and FDNT majors. Modification of that course will serve a larger student section of students. Food

and beverage topics from the previous CHEM 281 course were reviewed by FNDT faculty at that time and not deemed repetitive or conflicting with FDNT content.

**b. Credit Hour Change and Catalog Description Change:**

**Current Catalog Description:**

**SCI 102 Fundamentals of Chemistry**

**Class Hours:** 2

**Lab Hours:** 2

**Credits:** 2.5

**Prerequisites:** Early Childhood Education or Early Childhood Education/Special Education major or instructor permission

Surveys chemical principles and concepts for pre-service early childhood/ special education majors. A variety of chemical concepts is presented, as well as their applications to technology and society. A series of laboratory exercises and projects will allow student to develop inquiry-based activities for the communication of scientific and chemical concepts with the goal of developing scientific literacy.

**Proposed Catalog Description:**

**SCI 102 Fundamentals of Chemistry**

**Class Hours:** 3

**Lab Hours:** 0

**Credits:** 3

**Prerequisites:** Early Childhood Education or Early Childhood Education/Special Education major or instructor permission

Surveys chemical principles and concepts for pre-service early childhood/ special education majors. Presents a variety of chemical concepts, as well as their applications to technology and society. A series of laboratory exercises and projects allow student to develop inquiry-based activities for the communication of scientific and chemical concepts with the goal of developing scientific literacy.

**Rationale:** The early childhood education programs (ECED and ECSP) requested that the 2.5 credit SCI courses be converted into 3 or 4 credit courses that meet the LS lab or non-lab science requirements. Chemistry has opted for the 3cr version. The 2.5cr is a historical anomaly designed to help education degrees meet their credit caps. Chemistry will offer SCI 102 for the correct 3 cr. No revisions to course content are required.

**c. Program Revision:**

**Current Program:**

**Biochemistry, BS**

**Proposed Program:**

**Biochemistry, BS**

**Liberal Studies: 44**

As outlined in the Liberal Studies Requirements with the following specifications:

**Mathematics:**

MATH 125 - Calculus I/Physics, Chemistry, Mathematics

**Credits: 3****Natural Science:**

PHYS 131 - Physics I-C Lecture

**Credits: 3**

PHYS 141 - Physics I-C Lab

**Credits: 1**

PHYS 132 - Physics II-C Lecture

**Credits: 3**

PHYS 142 - Physics II-C Lab

**Credits: 1****Liberal Studies Elective: 3**

~~MATH 126 - Calculus II/Physics, Chemistry, Mathematics~~

~~**Credits: 3**~~

~~No courses with BIOC prefix~~

**Major: 60****Required Core: 52**

BIOC 301 - Foundations of Biochemistry

**Credits: 3**

BIOC 402 - Advanced Biochemistry

**Credits: 3**

BIOC 311 - Biochemistry Laboratory I

**Credits: 1**

BIOC 412 - Advanced Biochemistry

**Credits: 1**

BIOC 401 - Laboratory Methods in Biology and Biotechnology

**Credits: 1**

BIOC 480 - Biochemistry Seminar I (1)

**Credits: 3**

BIOC 481 - Special Topics in Biochemistry

**Credits: 1-3**

BIOC 482 - Independent Research in Biochemistry

**Credits: 1-3**

~~BIOC 490 - Biochemistry Seminar II (1)~~

~~**Credits: 1**~~

BIOL 202 - Principles of Cell and Molecular Biology

**Credits: 4**

BIOL 203 - Principles of Genetics and Development

**Credits: 4**

~~BIOL 250 - Principles of Microbiology~~

~~**Credits: 4**~~

CHEM 111 - General Chemistry I

**Credits: 4**

or

~~CHEM 113 - Advanced General Chemistry I~~

~~**Credits: 4**~~

CHEM 112 - General Chemistry II

**Credits: 4**

or

~~CHEM 114 - Advanced General Chemistry II~~

~~**Credits: 4**~~

CHEM 231 - Organic Chemistry I

**Credits: 4**

CHEM 332 - Organic Chemistry II

**Credits: 4**

CHEM 325 - Analytical Chemistry I

**Credits: 4**

~~CHEM 341 - Physical Chemistry I~~

~~**Credits: 4**~~**Controlled Electives: 6-8**

Two courses chosen from any 300- or 400-level BIOC/BIOL/CHEM courses

or

~~CHEM 314 - Inorganic Chemistry (2)~~

~~**Credits: 4**~~

~~MATH 216 - Probability and Statistics for Natural Sciences~~

~~**Credits: 3**~~

MATH 225 - Calculus III/Physics, Chemistry, Mathematics

**Credits: 3**

~~COSC 110 - Problem Solving and Structured Programming~~

~~**Credits: 3**~~**Free Electives: 16-18****Total Degree Requirements: 120**

(1) 1cr each semester of senior year.

**Liberal Studies: 44-45**

As outlined in the Liberal Studies Requirements with the following specifications:

**Mathematics:**

MATH 121 - Calculus I for Natural and Social Sciences

**Credits: 4**

or

MATH 125 - Calculus I/Physics, Chemistry, Mathematics

**Credits: 3****Natural Science:**

PHYS 111 - Physics I Lecture

**Credits: 3**

PHYS 121 - Physics I Lab

**Credits: 1**

PHYS 112 - Physics II Lecture

**Credits: 3**

PHYS 122 - Physics II Lab

**Credits: 1**

or

PHYS 131 - Physics I-C Lecture

**Credits: 3**

PHYS 141 - Physics I-C Lab

**Credits: 1**

PHYS 132 - Physics II-C Lecture

**Credits: 3**

PHYS 142 - Physics II-C Lab

**Credits: 1****Liberal Studies Elective: 3**

~~MATH 216 - Probability and Statistics for Natural Science~~

~~**Credits: 3**~~**Major: 57****Required Core: 49**

BIOC 290 - Biochemistry Seminar I

**Credits: 1**

BIOC 301 - Foundations of Biochemistry

**Credits: 3**

BIOC 311 - Biochemistry Laboratory I

**Credits: 2**

BIOC 402 - Advanced Biochemistry

**Credits: 3**

BIOC 412 - Biochemistry Laboratory II

**Credits: 2**

BIOC 480 - Biochemistry Seminar II

**Credits: 1**

BIOC 482 - Independent Research in Biochemistry

**Credits: 2**

One additional BIOC course at the 400-level (1)

**Credits: 3**

CHEM 111 - General Chemistry I

**Credits: 4**

CHEM 112 - General Chemistry II

**Credits: 4**

CHEM 231 - Organic Chemistry I

**Credits: 4**

CHEM 325 - Analytical Chemistry I

**Credits: 4**

CHEM 332 - Organic Chemistry II

**Credits: 4**

BIOL 202 - Principles of Cell and Molecular Biology

**Credits: 4**

BIOL 203 - Principles of Genetics and Development

**Credits: 4**

One course from the following: 4 (2, 3)

CHEM 314 - Inorganic Chemistry

**Credits: 4**

CHEM 341 - Physical Chemistry I

**Credits: 4****Controlled Electives: 8**

8 credits from the following: BIOL 241;

MATH 122, MATH 126, MATH 171, MATH

225, MATH 341 (2); any additional BIOC,

BIOL or CHEM course at the 300-level or

above (4, 5)

**Free Electives: 17-19****Total Degree Requirements: 120**

(1) This requirement may be met with a 400-level CHEM course, with advisor permission.

(2) If both CHEM 314 and 341 are taken, the second course Satisfies 4cr of the controlled elective requirement.

(2) CHEM 314 must be taken to qualify for an ACS certified degree.

(3) CHEM 341 requires MATH 122 or 126.

(4) Students cannot count both MATH 122 and MATH 126.

(5) For an American Chemical Society certified degree, Students need to take MATH 122 or MATH 126, and CHEM 314, CHEM 341 and one additional CHEM course at the 400 level.

#### **d. Program Catalog Description Change:**

##### **Current Catalog Description:**

The four-year BS biochemistry and the minor are offered by the chemistry department.

The curriculum leading to a BS degree with a major in biochemistry begins with foundation courses in biology, chemistry, mathematics, and physics in the first two years. Specialization in biochemistry commences in the third year with courses in biochemistry, genetics, physical chemistry, special topics in biochemistry, and biochemistry seminar. Completion of one chemistry course as a controlled elective allows students the option to receive a biochemistry degree certified by the American Chemical Society.

A unique feature of this undergraduate program is that biochemistry research is a requirement. After consultation with faculty, the students will define a problem and devise an experimental plan through library research. Laboratory research will be done under the direct supervision of a faculty member. Finally, the student will report on the results of the research in both written and oral forms.

This program is intended for students whose interests lie in a most exciting field of modern science. Graduates can expect to be qualified to enter graduate programs in biochemistry, biology, chemistry, and molecular biology; professional schools in the health sciences; and positions in industrial and government research laboratories and in industrial production facilities.

##### **Proposed Catalog Description:**

Biochemistry is a dynamic and growing area in the sciences that integrates the understanding of chemical principles in living organisms. IUP's biochemistry program offers excellent training and coursework that combine the principles of chemistry and biology with the fundamentals of mathematics and physics. An exciting facet of the Biochemistry BS is the undergraduate research component. This aspect allows a student to work with a faculty member on a novel problem in biochemistry. Very often these students give presentations of their results at national and local scientific conferences.

The IUP Biochemistry degree prepares graduates to pursue various careers in medicine, science and technology, or advanced studies in biochemistry, bioengineering, biotechnology and other related fields. Students who pursue the Biochemistry major simultaneously fulfil all of the science coursework required by most medical schools. Additionally, many IUP Biochemistry graduates have continued their education to earn Ph.D. degrees at highly prestigious graduate programs.

**Rationale:** As far as can be determined, the Biochemistry BS has not had a significant revision since its inception. Some of the courses in the present degree no longer exist, and the field of biochemistry continues to evolve. The biochemistry faculty in the Chemistry Department want to make the program more accessible to a variety of students, so that it works for those intending to

seek employment in biochemistry directly after graduation, as well as those going on to graduate or professional schools.

**e. Program Revision:**

**Current Program:**

**Chemistry, BS**

**Liberal Studies: 44-46**

As outlined in the Liberal Studies Requirements with the following specifications:

**Mathematics:**

MATH 121 – Calculus I for Natural and Social Sciences

**Credits: 4**

or

MATH 125 - Calculus I/Physics, Chemistry, Mathematics

**Credits: 3**

**Natural Science:**

PHYS 111 - Physics I Lecture

**Credits: 3**

PHYS 121 - Physics I Lab

**Credits: 1**

PHYS 112 - Physics II Lecture

**Credits: 3**

PHYS 122 - Physics II Lab

**Credits: 1**

or

PHYS 131 - Physics I-C Lecture

**Credits: 3**

PHYS 141 - Physics I-C Lab

**Credits: 1**

PHYS 132 - Physics II-C Lecture

**Credits: 3**

PHYS 142 - Physics II-C Lab

**Credits: 1**

**Liberal Studies Elective: 3-4**

MATH 122 – Calculus II for Natural and Social Sciences

**Credits: 4**

or

MATH 126 - Calculus II/Physics, Chemistry, Mathematics

**Credits: 3**

**Major: 55**

**Required Courses:**

CHEM 111 - General Chemistry I

**Credits: 4**

or

~~CHEM 113 – Advanced General Chemistry I~~

~~**Credits: 4**~~

CHEM 112 - General Chemistry II

**Credits: 4**

or

~~CHEM 114 – Advanced General Chemistry II~~

~~**Credits: 4**~~

CHEM 231 - Organic Chemistry I

**Credits: 4**

CHEM 290 - Chemistry Seminar I

**Credits: 1**

CHEM 314 - Inorganic Chemistry

**Credits: 4**

CHEM 325 - Analytical Chemistry I

**Credits: 4**

CHEM 332 - Organic Chemistry II

**Credits: 4**

CHEM 341 - Physical Chemistry I

**Credits: 4**

CHEM 343 - Physical Chemistry Laboratory I

**Credits: 1**

CHEM 390 – Chemistry Seminar II

**Credits: 1**

CHEM 401 - Advanced Chemistry Lab

**Credits: 4**

CHEM 498 - Problems in Chemistry (2)

**Credits: 2**

BIOC 301 - Foundations of Biochemistry

**Credits: 3**

**Controlled Electives: (2, 3)**

At least 9cr additional from CHEM or BIOC at the 400 level

**Credits: 9**

**MATH elective: 6**

Two courses from the following:

**Proposed Program:**

**BS Chemistry (including Pre-Medical, Pre-Pharmacy and Chemical Education)**

**Liberal Studies: 44-46**

As outlined in the Liberal Studies Requirements with the following specifications:

**Mathematics:**

MATH 121 – Calculus I for Natural and Social Sciences

**Credits: 4**

or

MATH 125 - Calculus I/Physics, Chemistry, Mathematics

**Credits: 3**

**Natural Science:**

PHYS 111 - Physics I Lecture

**Credits: 3**

PHYS 121 - Physics I Lab

**Credits: 1**

PHYS 112 - Physics II Lecture

**Credits: 3**

PHYS 122 - Physics II Lab

**Credits: 1**

or

PHYS 131 - Physics I-C Lecture

**Credits: 3**

PHYS 141 - Physics I-C Lab

**Credits: 1**

PHYS 132 - Physics II-C Lecture

**Credits: 3**

PHYS 142 - Physics II-C Lab

**Credits: 1**

**Liberal Studies Elective: 3-4**

MATH 122 – Calculus II for Natural and Social Sciences

**Credits: 4**

or

MATH 126 - Calculus II/Physics, Chemistry, Mathematics

**Credits: 3**

**Major: 57-74 (1)**

**Required Courses:**

CHEM 111 - General Chemistry I

**Credits: 4**

CHEM 112 - General Chemistry II

**Credits: 4**

CHEM 231 - Organic Chemistry I

**Credits: 4**

CHEM 290 - Chemistry Seminar I

**Credits: 1**

CHEM 314 - Inorganic Chemistry

**Credits: 4**

CHEM 325 - Analytical Chemistry I

**Credits: 4**

CHEM 332 - Organic Chemistry II

**Credits: 4**

CHEM 341 - Physical Chemistry I

**Credits: 4**

**Controlled Electives: 20-36 (2)**

Select one of the following concentrations:

**Traditional Chemistry Concentration: 30**

*(earns American Chemical Society certification):*

BIOC 301 - Fundamentals of Biochemistry

**Credits: 3**

CHEM 343 - Physical Chemistry Laboratory I

**Credits: 1**

CHEM 390 - Chemistry Seminar II

**Credits: 1**

CHEM 401 - Advanced Chemistry Lab

**Credits: 4**

CHEM 498 - Problems in Chemistry (3)

**Credits: 2**

BIOL 201 - Principles of Ecology and Evolution

**Credits: 4**

or

MATH 171 - Introduction to Linear Algebra	<b>Credits: 3</b>	BIOL 202 - Principles of Cell and Molecular Biology	<b>Credits: 4</b>
MATH 216 - Probability and Statistics for Natural Sciences	<b>Credits: 3</b>	Three additional CHEM or BIOC courses (other than 498) at the 400-level, credits: (3) 6cr from the following, including at least 3cr from MATH:	<b>Credits: 9</b>
MATH 225 - Calculus III/Physics, Chemistry, Mathematics	<b>Credits: 3</b>	COSC 110 – Problem Solving and Structured Programming	<b>Credits: 3</b>
MATH 341 - Differential Equations	<b>Credits: 3</b>	GEOS 201 - Foundations of Geology	<b>Credits: 4</b>
MATH 342 - Advanced Mathematics for Applications	<b>Credits: 4</b>	MATH 171 - Introduction to Linear Algebra	<b>Credits: 3</b>
or		MATH 216 - Probability and Statistics for Natural Sciences	<b>Credits: 3</b>
MATH 343 - Introduction to Numerical Methods	<b>Credits: 3</b>	MATH 225 - Calculus III/Physics, Chemistry, Mathematics	<b>Credits: 3</b>
<b>Other Requirements: 4</b>		MATH 341 - Differential Equations	<b>Credits: 3</b>
BIOL 202 - Principles of Cell and Molecular Biology	<b>Credits: 4</b>	MATH 342 - Advanced Mathematics for Applications	<b>Credits: 4</b>

**Free Electives: 15-17**

**Total Degree Requirements: 120**

- (1) Students are required to complete the DUCK exam during their last semester at IUP.
- (2) CHEM 493 Internship in Chemistry may be used to satisfy 3cr of controlled elective or 2cr of CHEM 498.
- (3) Additional courses may be counted for this requirement, with permission of advisor and department chair. Students who dual-major may count 400-level courses from their second major for at least some of this requirement.

MATH 343 - Introduction to Numerical Methods  
 additional BIOL course at the 200-level or above, additional CHEM course at the 400-level

**Applied Chemistry Concentration: 28-35**

BIOC 301 - Fundamentals of Biochemistry	<b>Credits: 3</b>
or	
CHEM 351 - Biochemistry	<b>Credits: 4</b>
CHEM 343 - Physical Chemistry Laboratory I	<b>Credits: 1</b>
CHEM 390 - Chemistry Seminar II	<b>Credits: 1</b>
CHEM 401 - Advanced Chemistry Lab	<b>Credits: 4</b>
BIOL 201 - Principles of Ecology and Evolution	<b>Credits: 4</b>
or	
BIOL 202 - Principles of Cell and Molecular Biology	<b>Credits: 4</b>
3 additional credits of CHEM or BIOC course at the 400-level	<b>Credits: 3</b>

A minor or customized program in a complimentary field (4), possibilities include Art, Business HR, Economics, Food and Nutrition, Marketing, Pre-Law, Political Science, Sustainability, Leadership Studies, Biology, Computer Science, Geoscience, Math, Physics (12-18cr)

**Pre-Medical Concentration: 31**

(omitting LS):

**Liberal Studies:**

**Philosophy or Religious Studies:**

PHIL 122 - Contemporary Moral Issues	<b>Credits: 3</b>
or	
PHIL 130 - Introduction to Biomedical Ethics	<b>Credits: 3</b>

**Social Science:**

PSYC 101 - General Psychology	<b>Credits: 3</b>
SOC 151 - Principles of Sociology	<b>Credits: 3</b>
or	
SOC 161 - Foundations of Sociology: Social Relations in Groups and Organizations	<b>Credits: 3</b>
or	
ANTH 110 - Contemporary Anthropology	<b>Credits: 3</b>
or	
ANTH 211 - Cultural Anthropology	<b>Credits: 3</b>
CHEM 390 - Chemistry Seminar II	<b>Credits: 1</b>
or	
BIOC 480 - Biochemistry Seminar II	<b>Credits: 1</b>

CHEM 498 - Problems in Chemistry	<b>Credits: 2</b>
BIOL 202 - Principles of Cell and Molecular Biology	<b>Credits: 4</b>
BIOL 203 - Principles of Genetics and Development	<b>Credits: 4</b>
MATH 216 - Probability and Statistics for Natural Science	<b>Credits: 3</b>
One of the following (6 credits):	
BIOC 301 - Fundamentals of Biochemistry	<b>Credits: 3</b>
BIOC 402 - Advanced Biochemistry	<b>Credits: 3</b>
or	
CHEM 351 - Biochemistry	<b>Credits: 4</b>
BIOC 311 - Biochemistry Laboratory I	<b>Credits: 2</b>
11 credits from the following:	<b>Credits: 11</b>
BIOL 150 - Human Anatomy	<b>Credits: 4</b>
BIOL 240 - Human Physiology	<b>Credits: 4</b>
BIOL 241 - Introductory Medical Microbiology	<b>Credits: 4</b>
or	
any additional BIOC, BIOL or CHEM courses at the 300-level or above	
<b><i>Pre-Pharmacy Concentration: 29-31 (5)</i></b> <i>(omitting LS)</i>	
<b>Liberal Studies:</b>	
<b>Philosophy or Religious Studies:</b>	
PHIL 122 - Contemporary Moral Issues	<b>Credits: 3</b>
or	
PHIL 130 - Introduction to Biomedical Ethics	<b>Credits: 3</b>
<b>Social Science:</b>	
PSYC 101 - General Psychology	<b>Credits: 3</b>
ECON 101 - Basic Economics	<b>Credits: 3</b>
or	
ECON 121 - Principles of Macroeconomics	<b>Credits: 3</b>
BIOC 301 - Fundamentals of Biochemistry	<b>Credits: 3</b>
or	
CHEM 351 - Biochemistry	<b>Credits: 4</b>
CHEM 390 - Chemistry Seminar II	<b>Credits: 1</b>
or	
BIOC 480 - Biochemistry Seminar II	<b>Credits: 1</b>
MATH 216 - Probability and Statistics for Natural Science	<b>Credits: 3</b>
BIOL 150 - Human Anatomy	
or	
BIOL 402 - Advanced Human Anatomy	<b>Credits: 4</b>
BIOL 202 - Principles of Cell and Molecular Biology	<b>Credits: 4</b>
BIOL 203 - Principles of Genetics and Development	<b>Credits: 4</b>
BIOL 240 - Human Physiology	<b>Credits: 4</b>
or	
BIOL 409 - Pharmacology Principals and Applications	<b>Credits: 3</b>
BIOL 241 - Introductory Medical Microbiology	<b>Credits: 4</b>
BCOM 321 - Business and Interpersonal Communications	<b>Credits: 3</b>
or	
ENGL 310 - Public Speaking	<b>Credits: 3</b>
<b><i>Chemistry Education Concentration: 44-45</i></b> <i>(earns Secondary Science Education Certificate)</i>	
CHEM 343 - Physical Chemistry Laboratory I	<b>Credits: 1</b>
CHEM 390 - Chemistry Seminar II	<b>Credits: 1</b>
BIOC 301 - Fundamentals of Biochemistry	<b>Credits: 3</b>
or	



CHEM 351 - Biochemistry	<b>Credits: 4</b>
BIOL 201 - Principles of Ecology and Evolution	<b>Credits: 4</b>
or	
BIOL 202 - Principles of Cell and Molecular Biology	<b>Credits: 4</b>
GEOS 201 - Foundations of Geology	<b>Credits: 4</b>
Education Sequence (6)	<b>Credits: 31</b>

**Free Electives: 0-18**

**Total Degree Requirements: 120**

- (1) Students are required to complete the DUCK exam during their last semester at IUP.
- (2) Any concentration can qualify for the Chemistry Honors Certificate.
- (3) CHEM 493 Internship in Chemistry may be used to satisfy 3cr of controlled elective or 2cr of CHEM 498.
- (4) Students may wish to design a customized complimentary field program. Many combinations of the applied chemistry B.S. curriculum with complementary courses are possible. A customized program must contain a minimum of 15 credits. Also, any customized program must be approved by the student's advisor and the department chair.
- (5) Students enrolled at an accredited School of Pharmacy after three years at IUP may count the following toward the requirements for the Bachelor of Science – Chemistry/Pre-Pharmacy Track: 3cr of LS social science; 12cr of required CHEM courses (see below); 15cr of free electives (total 30cr). Upon completing the first year of Pharmacy School, students electing this option are not required to take CHEM 314, 325 and 341. If these CHEM courses are taken, they may be counted toward the controlled elective requirement.
- (6) See requirements leading to teacher certification, titled "3-Step Process for Teacher Education." In the College of Education and Communications section of this catalog.

## f. Program Catalog Description Change:

### Current Catalog Description:

Chemistry is a field that has historically enjoyed very strong career possibilities. Many students are employed directly after their undergraduate education by the chemical, pharmaceutical or related industries, in jobs that have excellent career prospects. Graduate school in chemistry or biochemistry usually includes very generous financial support, and can lead to outstanding career paths in industry, government or academic areas. These opportunities are available to students completing any of the ~~degree programs offered by the Department of Chemistry~~, and graduates of these programs have gone on to industrial leadership positions, and some of the most prestigious graduate programs in the country.

The BS degree in Chemistry is designed for students intending a career in chemistry and is certified by the American Chemical Society. The advanced courses in the ~~Chemistry BS~~ reflect trends in the modern field of chemistry, and the requirements are flexible enough to allow students to tailor the



degree program to their specific needs and interests. There is also a strong laboratory component in the **Chemistry BS**, which gives the student excellent hands on preparation for the challenges of employment or graduate school. An internship program with local chemical companies is available, and the credits from this internship can be counted to meet some of the program requirements.

The Chemistry BS degree is designed not only for traditional chemistry majors, but also for those students interested in cross-disciplinary fields that involve chemistry. Students intending to follow a dual-degree program should work with their Chemistry adviser, as courses from their other major can count for some of the requirements in the Chemistry BS degree.

### **Proposed Catalog Description:**

Chemistry is a field that has historically enjoyed very strong career possibilities. Many students are employed directly after their undergraduate education by the chemical, pharmaceutical or related industries, in jobs that have excellent career prospects. Graduate school in chemistry or biochemistry usually includes very generous financial support, and can lead to outstanding career paths in industry, government or academic areas. These opportunities are available to students completing any of the **concentrations in the Chemistry B.S.**, and graduates of these programs have gone on to industrial leadership positions, and some of the most prestigious graduate programs in the country.

The **Traditional Chemistry concentration** is designed for students intending a career in chemistry and is certified by the American Chemical Society. The advanced courses in the **Traditional Chemistry concentration** reflect trends in the modern field of chemistry, and the requirements are flexible enough to allow students to tailor the degree program to their specific needs and interests. There is also a strong laboratory component in the **Traditional Chemistry concentration**, which gives the student excellent hands-on preparation for the challenges of employment or graduate school. An internship program with local chemical companies is available, and the credits from this internship can be counted to meet some of the program requirements.

The **Applied Chemistry concentration** is designed not only for students intending a career in chemistry, but also for those students interested in cross-disciplinary fields that involve chemistry. Students intending to follow a dual-degree program should work with their Chemistry adviser, as courses from their other major can count for many of the requirements in the **Applied Chemistry concentration**.

The **Pre-medical and Pre-pharmacy concentrations** of the BS degree allow students to take all courses required for entrance into their intended professional health program. Students in these tracks retain the option of: (a) attending medical or pharmacy school, (b) attending graduate school in chemistry, biochemistry, pharmacology, or a variety of medically-related PhD programs, (c) employment in the chemistry or pharmaceutical industry. Additionally, the flexibility of the concentrations in the Chemistry BS degree allows students to change the focus of their degree program during their undergraduate experience.

The **Chemistry Education concentration** is a professional degree that allows students to be certified by the Pennsylvania Department of Education as high school chemistry teachers. However, this degree still retains the essential coursework of a chemistry degree, so these graduates will be well prepared for the demands of teaching or employment as a chemist.

**Rationale:** The BS in Chemistry will be a single degree program including what is now the Chemistry BS, the Chemistry Pre-medical Track, the Chemistry Pre-pharmacy Track, and the Chemistry Education

Track. These four programs will now be concentrations in the Chemistry BS and a new, Applied Chemistry concentration will be added. All five concentrations share a set of eight core courses (29 credits), as well as Physics and Math courses specified in Liberal Studies. The changes in each of the above programs as they transition from a track to a concentration are specified in Supporting Documentation to the proposal.

## 2. Department of Nursing and Allied Health Professions—Program Revision

### APSCUF Rep Council approved

#### Current Program:

##### Licensed Practical Nurse Track, Nursing, BS

###### Liberal Studies: 43

As outlined in the Liberal Studies Requirements with the following specifications:

**Dimensions of Wellness:** Fulfilled by the major

**Mathematics:** MATH 217 – Probability and Statistics

Credits: 3

###### Natural Science:

~~CHEM 101 – College Chemistry I~~

Credits: 4

~~CHEM 102 – College Chemistry II~~

~~Credits: 4~~

(CHEM 111/CHEM 112 could fulfill with permission)

###### Social Science:

PSYC 101 – General Psychology

Credits: 3

SOC 151 – Principles of Sociology

Credits: 3

or

SOC 161 – Foundations of Sociology: Social Relations in Groups and Organizations

Credits: 3

###### Liberal Studies Elective: 5

PSYC 310 – Developmental Psychology

Credits: 3

No courses with NURS prefix

###### Major: 50-53

###### Required Courses:

NURS 214 – Health Assessment

Credits: 3

NURS 312 – Professional Nursing

Credits: 2

NURS 316 – Evidence-Based Practice in Nursing

Credits: 3

NURS 334 - Transitions in Professional Nursing

Credits: 3

NURS 412 - Nursing Management

Credits: 2

NURS 431 - Public/Community Nursing Clinical

Credits: 2

NURS 432 - Psychiatric/Mental Health

Credits: 2

NURS 433 - Psychiatric/Mental Health Clinical

Credits: 2

NURS 434 - Public/Community Nursing

Credits: 2

NURS 436 - Adult Health II

Credits: 4

NURS 437 - Adult Health II Clinical

Credits: 2.5

NURS 440 - Nursing Management Clinical

Credits: 2.5

NURS 450 - A Cognitive Approach to Clinical Problem Solving

Credits: 3 (2)

NURS 493 - Internship

Credits: 1-12

#### Proposed Program:

##### Licensed Practical Nurse Track, Nursing, BS

###### Liberal Studies: 42

As outlined in the Liberal Studies Requirements with the following specifications:

**Dimensions of Wellness:** Fulfilled by the major

**Mathematics:** MATH 217 – Probability and Statistics

Credits: 3

###### Natural Science:

~~CHEM 103 – Introduction to Chemistry for Health Science~~

Credits: 4

~~CHEM 255 - Biochemistry for Health Science (CHEM 101/CHEM 102 or CHEM 111/CHEM 112 could fulfill with permission)~~

~~Credits: 3~~

###### Social Science:

PSYC 101 – General Psychology

Credits: 3

SOC 151 – Principles of Sociology

Credits: 3

or

SOC 161 – Foundations of Sociology: Social Relations in Groups and Organizations

Credits: 3

###### Liberal Studies Elective: 5

PSYC 310 – Developmental Psychology

Credits: 3

No courses with NURS prefix

###### Major: 51-54

###### Required Courses:

NURS 214 – Health Assessment

Credits: 3

NURS 312 – Professional Nursing

Credits: 2

NURS 316 – Evidence-Based Practice in Nursing

Credits: 3

NURS 334 - Transitions in Professional Nursing

Credits: 3

NURS 412 - Nursing Management

Credits: 3

NURS 431 - Public/Community Nursing Clinical

Credits: 3

NURS 432 - Psychiatric/Mental Health

Credits: 2

NURS 433 - Psychiatric/Mental Health Clinical

Credits: 2

NURS 434 - Public/Community Nursing

Credits: 2

NURS 436 - Adult Health II

Credits: 4

NURS 437 - Adult Health II Clinical

Credits: 2.5

NURS 440 - Nursing Management Clinical

Credits: 2.5

NURS 450 - A Cognitive Approach to Clinical Problem Solving

Credits: 3 (1)

Credits: 1-12

NURS XXX - Advisor approved NURS elective	<b>Credits:</b> 3	<u>NURS 493 - Internship</u>	<b>Credits:</b> 3
<b>Adult Health:</b>		NURS XXX - Advisor approved NURS elective	
<u>NURS 336 - Adult Health I</u>	<b>Credits:</b> 4	<b>Adult Health:</b>	<b>Credits:</b> 4
<u>NURS 337 - Adult Health I Clinical</u>	<b>Credits:</b> 5	<u>NURS 336 - Adult Health I</u>	<b>Credits:</b> 5
or		<u>NURS 337 - Adult Health I Clinical</u>	
Credits by Exam Credits: 8 (3) and		or	
<u>NURS 493 - Internship</u>	<b>Credits:</b> 1-12	Credits by Exam Credits: 8 (2) and	
<b>Maternal Neonatal Health:</b>		<u>NURS 493 - Internship</u>	<b>Credits:</b> 1-12
<u>NURS 330 - Care of the Child and Family</u>	<b>Credits:</b> 2	<b>Maternal Neonatal Health:</b>	
<u>NURS 331 - Care of the Child and Family Clinical</u>	<b>Credits:</b> 2	<u>NURS 330 - Care of the Child and Family</u>	<b>Credits:</b> 2
<u>NURS 332 - Maternal-Neonatal Health</u>	<b>Credits:</b> 2	<u>NURS 331 - Care of the Child and Family Clinical</u>	
<u>NURS 333 - Maternal-Neonatal Clinical</u>	<b>Credits:</b> 2	<u>NURS 332 - Maternal-Neonatal Health</u>	<b>Credits:</b> 2
or		<u>NURS 333 - Maternal-Neonatal Clinical</u>	<b>Credits:</b> 2
Credits by Exam Credits: 7 (3) and		or	
<u>NURS 493 - Internship</u>	<b>Credits:</b> 1-12	Credits by Exam Credits: 7 (2) and	
<b>Other Requirements:</b> 15		<u>NURS 493 - Internship</u>	<b>Credits:</b> 1-12
<u>BIOL 150 – Human Anatomy</u>	<b>Credits:</b> 4	<b>Other Requirements:</b> 15	
<u>BIOL 240 – Human Physiology</u>	<b>Credits:</b> 4	<u>BIOL 150 – Human Anatomy</u>	<b>Credits:</b> 4
<u>BIOL 241 – Introductory Medical Microbiology</u>	<b>Credits:</b> 4	<u>BIOL 240 – Human Physiology</u>	<b>Credits:</b> 4
<u>FDNT 212 – Nutrition</u>	<b>Credits:</b> 3	<u>BIOL 241 – Introductory Medical Microbiology</u>	<b>Credits:</b> 4
		<u>FDNT 212 – Nutrition</u>	<b>Credits:</b> 3

**Free Electives: 9-12**

**Free Electives: 9-12**

**Total Degree Requirements: 120**

**Total Degree Requirements: 120**

(2) Students who achieve a higher score than a specified minimum on a department-required standardized test(s) are exempt from NURS 450. These students would need 12cr of free electives.

(1) Students who achieve a higher score than a specified minimum on a department-required standardized test(s) are exempt from NURS 450. These students would need 12cr of free electives.

(3) Students have the option of earning up to 15cr via examination and taking NURS 493 (up to 2cr) or completing NURS 330, NURS 331, NURS 332, NURS 333, NURS 336, and NURS 337 (17cr). Exam results must be received before students register for any 300- or 400-level nursing courses other than NURS 334.

(2) Students have the option of earning up to 15cr via examination and taking NURS 493 (up to 2cr) or completing NURS 330, NURS 331, NURS 332, NURS 333, NURS 336, and NURS 337 (17cr). Exam results must be received before students register for any 300- or 400-level nursing courses other than NURS 334.

**Rationale:** The Chemistry Department created two chemistry courses for the NAHP majors to provide content that will better meet the needs of the nursing students resulting in one less liberal studies credit. NURS 412 changed from 2-3 credits. The Psychology Department changed the number of PSYC 310 Developmental Psychology to PSYC 215 Developmental Psychology. Lastly, the two remaining footnotes have been renumbered.

### 3. Department of Music—Program Revision

**APSCUF Rep Council approved**

#### Current Program:

#### Proposed Program:

#### Music Education, BSED

#### Music Education, BSED

Also see requirements leading to teacher certification, titled “3-Step Process for Teacher Education,” in the [College of Education and Communications](#) section of this catalog.

Also see requirements leading to teacher certification, titled “3-Step Process for Teacher Education,” in the [College of Education and Communications](#) section of this catalog.

#### Liberal Studies: 43

#### Liberal Studies: 43

As outlined in the Liberal Studies Requirements with the following specifications:

As outlined in the Liberal Studies Requirements with the following specifications:

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

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

**Humanities:**

MUHI 102 - Music and Literature Survey

**Mathematics: 3**

One of the following:

MATH 101 - Foundations of Mathematics

MATH 105 - College Algebra

MATH 110 - Elementary Functions

MATH 217 - Probability and Statistics

**Natural Science: Option II****Social Science:**

PYSC 101 - General Psychology

**Liberal Studies Electives: 6**

MUHI 301 - Music History I

MUHI 302 - Music History II

**College: 32****Professional Education Sequence:**EDEX 323 - Instruction of English Language  
Learners with Special Needs

EDSP 102 - Educational Psychology

EDUC 242 - Pre-Student Teaching Clinical  
Experience IEDUC 342 - Pre-Student Teaching Clinical  
Experience II

EDUC 421 - Student Teaching

EDUC 441 - Student Teaching

EDUC 442 - School Law

MUSC 240 - Technology in the Music Classroom

MUSC 331 - Elementary Methods

MUSC 333 - Instrumental Methods

MUSC 335 - Music for Students with  
Disabilities in Inclusive Settings

MUSC 337 - General/Choral Methods

One additional course from:

MATH 101 - Foundations of Mathematics

MATH 105 - College Algebra

MATH 110 - Elementary Functions

MATH 217 - Probability and Statistics

**Major: 53****Required Courses:**

APMU (Primary) Applied Music I-VII

APMU 427 - Capstone Jury: Primary Instrument

MUSC 111 - Theory Skills I

MUSC 112 - Theory Skills II

MUSC 115 - Theory I

MUSC 116 - Theory II

MUSC 120-MUSC 140 (ensembles, seven  
semesters, 0-1 credit each)

MUSC 190 - Introduction to Music Education

MUSC 211 - Theory Skills III

MUSC 212 - Theory Skills IV

MUSC 215 - Theory III

MUSC 216 - Theory IV

MUSC 311 - Fundamentals of Conducting

MUSC 312 - Choral Conducting

or

MUSC 313 - Instrumental Conducting

MUSC 475 - Music Lab (recital attendance,  
seven semesters)

Concentration Area Courses:

*Voice Concentration***Humanities:**

MUHI 102 - Music and Literature Survey

**Mathematics: 3**

One of the following:

MATH 101 - Foundations of Mathematics

MATH 105 - College Algebra

MATH 110 - Elementary Functions

MATH 217 - Probability and Statistics

**Natural Science: Option II****Social Science:**

PYSC 101 - General Psychology

**Liberal Studies Electives: 6**

MUHI 301 - Music History I

MUHI 302 - Music History II

**College: 32****Professional Education Sequence:**EDEX 323 - Instruction of English Language  
Learners with Special Needs

EDSP 102 - Educational Psychology

EDUC 242 - Pre-Student Teaching Clinical  
Experience IEDUC 342 - Pre-Student Teaching Clinical  
Experience II

EDUC 421 - Student Teaching

EDUC 441 - Student Teaching

EDUC 442 - School Law

MUSC 240 - Technology in the Music Classroom

MUSC 331 - Elementary Methods

MUSC 333 - Instrumental Methods

MUSC 335 - Music for Students with  
Disabilities in Inclusive Settings

MUSC 337 - General/Choral Methods

One additional course from:

MATH 101 - Foundations of Mathematics

MATH 105 - College Algebra

MATH 110 - Elementary Functions

MATH 217 - Probability and Statistics

**Major: 53****Required Courses:**

APMU (Primary) Applied Music I-VII

APMU 427 - Capstone Jury: Primary Instrument

MUSC 111 - Theory Skills I

MUSC 112 - Theory Skills II

MUSC 115 - Theory I

MUSC 116 - Theory II

MUSC 120-MUSC 140 (ensembles, seven  
semesters, 0-1 credit each)

MUSC 190 - Introduction to Music Education

MUSC 211 - Theory Skills III

MUSC 212 - Theory Skills IV

MUSC 215 - Theory III

MUSC 216 - Theory IV

MUSC 311 - Fundamentals of Conducting

MUSC 312 - Choral Conducting

or

MUSC 313 - Instrumental Conducting

MUSC 475 - Music Lab (recital attendance,  
seven semesters)

Concentration Area Courses:

*Voice Concentration***Credits: 3****Credits: 3****Credits: 3****Credits: 3****Credits: 3****Credits: 3****Credits: 3****Credits: 3****Credits: 3****Credits: 3****Credits: 3****Credits: 3****Credits: 3****Credits: 3****Credits: 3****Credits: 3****Credits: 2****Credits: 3****Credits: 0-1****Credits: 1****Credits: 5-6****Credits: 5-12****Credits: 1****Credits: 2****Credits: 2****Credits: 2****Credits: 1****Credits: 2****Credits: 3****Credits: 3****Credits: 3****Credits: 3****Credits: 2****Credits: 3****Credits: 0-1****Credits: 1****Credits: 5-6****Credits: 5-12****Credits: 1****Credits: 2****Credits: 2****Credits: 2****Credits: 1****Credits: 2****Credits: 3****Credits: 3****Credits: 3****Credits: 3****Credits: 14****Credits: 0****Credits: 2****Credits: 2****Credits: 3****Credits: 3****Credits: 0-1****Credits: 1****Credits: 2****Credits: 2****Credits: 3****Credits: 3****Credits: 2****Credits: 2****Credits: 2****Credits: 0****Credits: 14****Credits: 0****Credits: 2****Credits: 2****Credits: 3****Credits: 3****Credits: 0-1****Credits: 1****Credits: 2****Credits: 2****Credits: 3****Credits: 3****Credits: 2****Credits: 2****Credits: 2****Credits: 0**

APMU 101 - Piano I	Credits: 1	APMU 101 - Piano I	Credits: 1
APMU 151 - Piano II	Credits: 1	APMU 127 - Piano Proficiency Level II	Credits: 0
APMU 201 - Piano III	Credits: 1	APMU 151 - Piano II	Credits: 1
APMU 251 - Piano IV	Credits: 1	APMU 201 - Piano III	Credits: 1
APMU 127 - Piano Proficiency Level II	Credits: 0	APMU 251 - Piano IV	Credits: 1
MUSC 351 - Italian Diction and Literature	Credits: 1	MUSC 351 - Italian Diction and Literature	Credits: 1
MUSC 353 - French Diction and Literature	Credits: 1	MUSC 353 - French Diction and Literature	Credits: 1
MUSC 354 - German Diction and Literature	Credits: 1	MUSC 354 - German Diction and Literature	Credits: 1
Select two of the following:		Select two of the following:	
MUSC 155 - Class Strings I	Credits: 1	MUSC 155 - Class Strings I	Credits: 1
MUSC 157 - Class Percussion I	Credits: 1	MUSC 157 - Class Percussion I	Credits: 1
MUSC 159 - Class Brass I	Credits: 1	MUSC 159 - Class Brass I	Credits: 1
MUSC 161 - Class Woodwinds I	Credits: 1	MUSC 161 - Class Woodwinds I	Credits: 1
<i>Instrumental Concentration</i>		<i>Instrumental Concentration</i>	
APMU 126 - Piano Proficiency Level I	Credits: 0	APMU 126 - Piano Proficiency Level I	Credits: 0
MUSC 121 - Chamber Singers	Credits: 0-1	MUSC 121 - Chamber Singers	Credits: 0-1
or		or	
MUSC 122 - University Chorale	Credits: 0-1	MUSC 122 - University Chorale	Credits: 0-1
or		or	
MUSC 134 - University Chorus	Credits: 0-1	MUSC 132 - Treble or Bass Chorus	Credits: 0-1
MUSC 151 - Class Voice I	Credits: 1	or	
MUSC 153 - Class Piano I	Credits: 1	MUSC 134 - University Chorus	Credits: 0-1
MUSC 154 - Class Piano II	Credits: 1	MUSC 151 - Class Voice I	Credits: 1
MUSC 155 - Class Strings I	Credits: 1	MUSC 153 - Class Piano I	Credits: 1
MUSC 157 - Class Percussion I	Credits: 1	MUSC 154 Class Piano II	Credits: 1
MUSC 159 - Class Brass I	Credits: 1	MUSC 155 Class Strings I	Credits: 1
MUSC 161 - Class Woodwinds I	Credits: 1	MUSC 157 Class Percussion I	Credits: 1
		MUSC 159 Class Brass I	Credits: 1
		MUSC 161 Class Woodwinds I	Credits: 1
<b>Controlled Electives:</b>		<b>Controlled Electives:</b>	
Select courses with MUSC, MUHI, or APMU prefixes to earn a total of 53 credits in the major.		Select courses with MUSC, MUHI, or APMU prefixes to earn a total of 53 credits in the major.	

**Total Degree Requirements: 128**

**Total Degree Requirements: 128**

**Rationale:** The program is being revised in order to add MUSC 132 Treble or Bass Chorus to the list of required concentration-area courses. Students select a single vocal ensemble from among those in the concentration area, so the addition of this course does not impact the credit load of the program. The revision only applies to the Instrumental Concentration of the B.S.Ed. in Music Education.

MUSC 134 University Chorus is rarely offered by the department, and it has been standard practice for instrumentalists who do not take MUSC 121 Chamber Singers or MUSC 122 University Chorale to elect MUSC 132 Treble or Bass Chorus. This has caused administrative problems, particularly in Degree Works, because MUSC 132 is not listed as an acceptable ensemble option. Additionally, APMU 127 was found to be out of numerical order.

#### **4. Department of English—New Course, Course Revision, Catalog Description Change, Modification of Prerequisites, Course Deletion, and Program Revision** **APSCUF Rep Council approved**

##### **a. New Course:**

##### **ENGL 256 Videogames and Literature**

**Class Hours: 3**

**Lab Hours: 0**

**Credits:** 3

**Prerequisites:** None

Surveys videogames as a storytelling medium, focusing on narrative structure, world-building, character development, theme, setting. Includes discussion of mainstream, indie, serious, education, and queer games. Explores the relationship of videogames to broader historical and sociopolitical factors such as national culture, the economics of the game industry, gender, race/ethnicity, and sexuality.

**Rationale:** Has been successfully offered several times as a special topic course. The undergraduate program seeks to formalize it as a regular offering.

## **b. Course Revision, Catalog Description Change, and Modification of Prerequisites:**

### **Current Catalog Description:**

#### **ENGL 415 English Language Study for Teachers**

**Class Hours:** 3

**Lab Hours:** 0

**Credits:** 3

**Prerequisites:** ENGL 202

Focuses on the fundamentals of language study with equal emphasis on the sound, the word, the sentence, the meaning, and the discourse patterns of English as they manifest in daily lives. Educationally relevant topics, such as applications of sociolinguistics to the teaching of English language and literature, varieties of grammar, and linguistic descriptions of styles and registers are an integral part of the course.

### **Proposed Catalog Description:**

#### **ENGL 415 English Language Study for Teachers**

**Class Hours:** 3

**Lab Hours:** 0

**Credits:** 3

**Prerequisites:** none

Focuses on the fundamentals of language study with equal emphasis on the sound, the word, the sentence, the meaning, and the discourse patterns of English as they manifest in daily lives. Covers relevant topics, such as applications of sociolinguistics to the teaching of English language and literature, varieties of grammar, the history of English, and linguistic descriptions of styles and registers.

**Rationale:** Two groups of students take ENGL 415, English Education students and English as a Second Language students. English Education students also take an additional one credit course, ENGL 329, The History of English. ENGL 329 and ENGL 415 have substantial overlap in content. The unique content in ENGL 329 is direct attention to major historical shifts in the English language. We are formally moving this historical content to ENGL 415 in this revision. 1) The history of English piece complements the content already included in ENGL 415. In fact, instructors have included this content in their course design already, even though it wasn't required. 2) English Education students are already required to take above 120 credits, and their schedules are packed. Students have shared for years that these courses are repetitive, and we know a single unnecessary credit is an additional financial and time burden on them.

We are also removing the ENGL 202 prerequisite so that ESL Certificate students who need this course are not delayed in taking it.

**c. Course Deletion:**

**ENGL 329 History of English**

**Rationale:** The content of this course is already being covered in ENGL 415 English Language Study for Teachers. Both courses already had a great amount of overlap, and instructors in recent years have been covering major historical shifts in English in ENGL 415, which captures the learning outcomes unique to ENGL 329. Instead of requiring all English Education students to take an additional one credit course, we are formally revising ENGL 415 and proposing to delete this course. We will also be submitting a program revision so that ENGL 329 is removed from the English Education requirements.

**d. Program Revision:**

**Current Program:**

**English Education, BSED**

**Liberal Studies: 43-44**

As outlined in the Liberal Studies Requirements with the following specifications:

**Humanities-Literature:**

**ENGL 122 - Introduction to English Studies** Credits: 3

**Mathematics: 3**

**MATH 101 - Foundations of Mathematics** or higher Credits: 3

**Social Science:**

**PSYC 101 - General Psychology** Credits: 3

**Liberal Studies Electives: 3**

MATH (1)

~~No courses with ENGL prefix~~

**College: 6**

Foreign Language Intermediate Level or Free Electives

**College: 30**

**Preprofessional Education Sequence:**

**ACE 103 - Digital Instructional** Credits: 3

**Technology**

**EDSP 102 - Educational Psychology** Credits: 3

**Professional Education Sequence:**

**EDEX 301 - Education of Students with**

**Disabilities in Inclusive**

**Secondary Settings** Credits: 2

**EDSP 477 - Assessment of Student Learning:**

**Design and Interpretation of**

**Educational Measures** Credits: 3

or

EDSP 577 - Inclusive Secondary Settings  
Assessment of Student Learning:  
Design and Interpretation of  
Educational Measures

Credits: 2

**EDUC 242 - Pre-student Teaching Clinical**

**Experience I** Credits: 1

**Proposed Program:**

**English Education, BSED**

**Liberal Studies: 43-44**

As outlined in the Liberal Studies Requirements with the following specifications:

**Humanities-Literature:**

**ENGL 122 - Introduction to English Studies** Credits: 3

**Mathematics: 3**

**MATH 101 - Foundations of Mathematics** or higher Credits: 3

**Social Science:**

**PSYC 101 - General Psychology** Credits: 3

**Liberal Studies Electives: 3**

MATH (1)

**College: 6**

Foreign Language Intermediate Level or Free Electives

**College: 30**

**Preprofessional Education Sequence:**

**ACE 103 - Digital Instructional** Credits: 3

**Technology**

**EDSP 102 - Educational Psychology** Credits: 3

**Professional Education Sequence:**

**EDEX 301 - Education of Students with**

**Disabilities in Inclusive**

**Secondary Settings** Credits: 2

**EDSP 477 - Assessment of Student Learning:**

**Design and Interpretation of**

**Educational Measures** Credits: 3

or

EDSP 577 - Inclusive Secondary Settings  
Assessment of Student Learning:  
Design and Interpretation of  
Educational Measures

Credits: 2

**EDUC 242 - Pre-student Teaching Clinical**

**Experience I** Credits: 1



**EDUC 342 - Pre-student Teaching Clinical Experience II** Credits: 1  
**CHSS 343 - Applied Practice in Secondary English Language Arts** Credits: 1  
**EDUC 441 - Student Teaching** Credits: 5-12  
**EDUC 442 - School Law** Credits: 1  
**EDUC 452 - Teaching of English and Communication in the Secondary School** Credits: 3

Major: 43

Required Courses:

**ENGL 212 - American Literature: Beginnings to 1900** Credits: 3  
**ENGL 220 - Advanced Composition** Credits: 3  
**ENGL 314 - Speech and Communication in the Secondary English Classroom** Credits: 3  
**ENGL 323 - Teaching Literature and Reading in the Secondary School** Credits: 3  
**ENGL 324 - Teaching and Evaluating Writing** Credits: 3  
**ENGL 329 - The History of the English Language** Credits: 1  
**ENGL 415 - English Language Studies for Teachers** Credits: 3

or

ENGL 515 English Language Studies for Teachers Credits: 3

**ENGL 418 - Young Adult Literature** Credits: 3

or

ENGL 518 - Young Adult Literature Credits: 3

**ENGL 426 - ESL Methods and Materials** Credits: 3

or

ENGL 526 - ESL Methods and Materials Credits: 3

**ENGL 434 - Shakespeare** Credits: 3

Controlled Electives: (2)

One Film Studies Track course Credits: 3

One Literature/Cultural Track course Credits: 3

One general English elective (any track) Credits: 3

British Literature Survey Credits: 3

One British literature survey course from:

**ENGL 210 - British Literature to 1660** Credits: 3

**ENGL 211 - British Literature to 1660-1900** Credits: 3

Literature/Cultural Track:

Choose one course from the following LC Track:

**ENGL 213 - British and American Literature Since 1900** Credits: 3

**ENGL 225 - Introduction to Literature by Women** Credits: 3

**ENGL 226 - Survey of Global Literature Since 1900** Credits: 3

**ENGL 344 - Ethnic American Literature** Credits: 3

**ENGL 348 - African American Literature** Credits: 3

**ENGL 350 - Gender and Sexual Orientation in Literature, Theory, and Film** Credits: 3

**ENGL 398 - Global Genres** Credits: 3

ENGL 437 - Major Global Authors Credits: 3

**ENGL 463 - Topics in Global Literature and Film** Credits: 3

Total Degree Requirements: 122-123

**EDUC 342 - Pre-student Teaching Clinical Experience II** Credits: 1  
**CHSS 343 - Applied Practice in Secondary English Language Arts** Credits: 1  
**EDUC 441 - Student Teaching** Credits: 5-12  
**EDUC 442 - School Law** Credits: 1  
**EDUC 452 - Teaching of English and Communication in the Secondary School** Credits: 3

Major: 43

Required Courses:

**ENGL 212 - American Literature: Beginnings to 1900** Credits: 3  
**ENGL 220 - Advanced Composition** Credits: 3  
**ENGL 314 - Speech and Communication in the Secondary English Classroom** Credits: 3  
**ENGL 323 - Teaching Literature and Reading in the Secondary School** Credits: 3  
**ENGL 324 - Teaching and Evaluating Writing** Credits: 3  
**ENGL 415 - English Language Studies for Teachers** Credits: 3

or

ENGL 515 English Language Studies for Teachers Credits: 3

**ENGL 418 - Young Adult Literature** Credits: 3

or

ENGL 518 - Young Adult Literature Credits: 3

**ENGL 426 - ESL Methods and Materials** Credits: 3

or

ENGL 526 - ESL Methods and Materials Credits: 3

**ENGL 434 - Shakespeare** Credits: 3

Controlled Electives: (2)

One Film Studies Track course Credits: 3

One Literature/Cultural Track course Credits: 3

One general English elective (any track) Credits: 3

British Literature Survey Credits: 3

One British literature survey course from:

**ENGL 210 - British Literature to 1660** Credits: 3

**ENGL 211 - British Literature to 1660-1900** Credits: 3

Literature/Cultural Track:

Choose one course from the following LC Track:

**ENGL 213 - British and American Literature Since 1900** Credits: 3

**ENGL 225 - Introduction to Literature by Women** Credits: 3

**ENGL 226 - Survey of Global Literature Since 1900** Credits: 3

**ENGL 344 - Ethnic American Literature** Credits: 3

**ENGL 348 - African American Literature** Credits: 3

**ENGL 350 - Gender and Sexual Orientation in Literature, Theory, and Film** Credits: 3

**ENGL 398 - Global Genres** Credits: 3

ENGL 437 - Major Global Authors Credits: 3

**ENGL 463 - Topics in Global Literature and Film** Credits: 3

Total Degree Requirements: 121-122

(1) The second MATH course is a teacher certification requirement and counts as Liberal Studies elective credits for mathematics.

(2) One of the controlled English-elective track courses (either the Literature/ Cultural Track or the general English elective from any track) must be a Global and Multicultural course; this requirement is separate from and in addition to the global and multicultural Liberal Studies requirement.

(1) The second MATH course is a teacher certification requirement and counts as Liberal Studies elective credits for mathematics.

(2) One of the controlled English-elective track courses (either the Literature/ Cultural Track or the general English elective from any track) must be a Global and Multicultural course; this requirement is separate from and in addition to the global and multicultural Liberal Studies requirement.

**Rationale:** We are removing a one credit course, ENGL 329 History of English and formally moving that content to an existing three credit course, ENGL 415 English Language Study for Teachers. There is significant overlap between the two courses, and ENGL 415 instructors have already been integrating the unique content of ENGL 329 into ENGL 415. The ENGL 415 course revision and English Education BSED program revision will make that official and require one fewer credit of our students. English Education students are already required to take above 120 credits, and their schedules are packed.

## 5. Department of Theatre, Dance, and Performance—Course Title Change and Program Revision **APSCUF Rep Council approved**

### a. Course Title Change:

#### Current Course Title:

**THTR 140 Foundations of Performance**

#### Proposed Course Title:

**THTR 140 Foundations of Ensemble**

**Rationale:** This course functions as an experiential introduction to theatre and performance for all new majors, regardless of their intended track within the BA. Students gain experience of the essential core element of theatre, performance, and of the collaborative ways that performance interacts with other activities in Design, Technology and Management, as well as the creative generation of dramatic material through writing, improvisation or a combination of both. These collaborations are known as Ensemble activity in the field of theatre and performance. Ensemble activity is present in all areas, genres and types of theatre and performance as the art form is, by its nature, collaborative. The term Ensemble is also used to describe theatre companies who maintain a consistent cadre of practitioners over time and collaborate to create the material that they perform. The course title is being changed to maintain currency in our field, better communicate its content, and clarify its purpose and function within the curriculum of the Department.

### b. Program Revision:

#### Current Program:

**Musical Theatre Track, Theatre, BA**

#### Liberal Studies: 46-47

As outlined in the Liberal Studies Requirements with the following specifications:

#### Fine Arts:

MUHI 101- Introduction to Music

or

**Credits: 3**

#### Proposed Program:

**Musical Theatre Track, Theatre, BA**

#### Liberal Studies: 46-47

As outlined in the Liberal Studies Requirements with the following specifications:

#### Fine Arts:

MUHI 101- Introduction to Music

or

**Credits: 3**

DANC 102 - Introduction to Dance Credits: 3  
**Mathematics: 3**  
**Liberal Studies Electives: 6**  
 No courses with THTR prefix

**Major: 42 (1)**  
**Foundation Studies Courses: 11**  
MUSC 111 - Music Theory Skills I Credits: 2  
MUSC 115 - Music Theory I Credits: 3  
THTR 111 - Foundations of Theater Credits: 3  
THTR 371 - Musical Theatre History Credits: 3

**Core Skills Courses: 19**  
APMU 105 - Private Voice I Credits: 1  
APMU 155 - Private Voice II Credits: 1  
APMU 205 - Private Voice III Credits: 1  
APMU 255 - Private Voice IV Credits: 1  
DANC 260 - Beginning Jazz Credits: 3  
 or  
DANC 485 - Dance Studio (Jazz) (2) Credits: 3  
DANC 280 - Beginning Ballet Credits: 3  
 or  
DANC 485 - Dance Studio (Ballet) (2) Credits: 3  
THTR 240 - Acting I (3) Credits: 3  
~~THTR 372 - Musical Theatre Auditioning Credits: 3~~  
~~THTR 373 - Musical Theatre Scene Study Credits: 3~~

**Experiential Learning: 8**  
MUSC 126 - Music Theater (5) Credits: 0  
MUSC 128 - Opera/Musical in Production Ensemble (5) Credits: 0  
THTR 486 - Practicum in Production (4)(6) Credits: 0-1  
~~THTR 471 - Musical Theatre Performance (6) Credits: 3~~

**Controlled Electives: 3**  
DANC 270 - Beginning Ballroom and Tap Dance Credits: 3  
DANC 485 - Dance Studio (Ballroom and Tap) Credits: 3  
MUSC 153 - Class Piano I Credits: 1  
THTR 340 - Acting II Credits: 3  
~~THTR 350 - Directing Credits: 3~~  
**Capstone: 1**  
THTR 480 - Theater Seminar Credits: 1

**Free Electives: 31-32**

**Total Degree Requirements: 120**

- (1) Students must achieve a "C" or better in all major courses.
- (2) Level of dance studio competence will determine placement by faculty.
- ~~(3) Proficiency in acting studio fundamentals is prerequisite. Students who do not demonstrate proficiency at audition will be required to take THTR 140 - Fundamentals of Performance.~~
- ~~(4) Completion of 8 different production experiences required.~~
- (5) Proficiency in music theory is prerequisite. Students who do not demonstrate proficiency at audition will be required to take MUSC 110 - Fundamentals of Theory.

DANC 102 - Introduction to Dance Credits: 3  
**Liberal Studies Electives: 6**  
 No courses with THTR prefix

**Major: 42 (1)**  
**Foundation Studies Courses: 14**  
MUSC 111 - Music Theory Skills I (2) Credits: 2  
MUSC 115 - Music Theory I (2) Credits: 3  
THTR 111 - Foundations of Theater Credits: 3  
THTR 140 - Foundations of Ensemble Credits: 3  
THTR 371 - Musical Theatre History Credits: 3

**Core Skills Courses: 19**  
APMU 105 - Private Voice I Credits: 1  
APMU 155 - Private Voice II Credits: 1  
APMU 205 - Private Voice III Credits: 1  
APMU 255 - Private Voice IV Credits: 1  
DANC 260 - Beginning Jazz Credits: 3  
 or  
DANC 485 - Dance Studio (Jazz) (3) Credits: 3  
DANC 280 - Beginning Ballet Credits: 3  
 or  
DANC 485 - Dance Studio (Ballet) (3) Credits: 3  
THTR 240 - Acting I Credits: 3  
THTR 340 - Acting II Credits: 3  
THTR 487 - Acting Studio: Auditioning Credits: 3

**Experiential Learning: 4**  
MUSC 126 - Music Theater (4) Credits: 0  
MUSC 128 - Opera/Musical in Production Ensemble (4) Credits: 0  
THTR 486 - Practicum in Production (4)(5) Credits: 0-1

**Controlled Electives: 3**  
 Select 3 credits from the following:  
DANC 270 - Beginning Ballroom and Tap Dance Credits: 3  
DANC 485 - Dance Studio (Ballroom and Tap) Credits: 3  
MUSC 153 - Class Piano I Credits: 1  
THTR 340 - Acting II Credits: 3  
THTR 341 - Acting Styles Credits: 3  
THTR 342 - Acting Shakespeare Credits: 3  
**Capstone: 2**  
THTR 480 - Theater Seminar Credits: 1  
THTR 495 - Senior Thesis Credits: 1

**Free Electives: 31-32**

**Total Degree Requirements: 120**

- (1) Students must achieve a "C" or better in all major courses.
- (2) Proficiency in music theory is prerequisite. Students who do not demonstrate proficiency at audition will be required to take MUSC 113 - Theory Practicum.
- (3) Level of dance studio competence will determine placement by faculty.
- (4) Repeated for credit.
- (5) One repeat needs to have the title THTR 486 - Practicum in Production, others should have subtitles--production, performance, or applied theatre.

(6) Repeated for credit.

**Rationale:** Faculty specialties in the department's complement have changed. In collaboration with Music for corollary courses, the department faculty have the capacity to teach required competencies in acting, singing, and dance in order to deliver the degree. However, course requirements need to be changed, and some courses put on moratorium to deliver the degree with existing resources.

## 6. Department of Anthropology—Program Revisions APSCUF Rep Council approved – discussion in minutes

### i. Current Program:

#### Applied Track, Anthropology, BA

##### Liberal Studies: 46-47

As outlined in the [Liberal Studies Requirements](#) with the following specifications:

##### Mathematics:

[MATH 217 - Probability and Statistics](#)

Credits: 3

##### Social Science:

[GEOG 104 - World Geography: Global Context](#) (recommended)

Credits: 3

##### Liberal Studies Electives: 6

No courses with ANTH prefix

##### College: 0-8

~~Foreign Language Intermediate Level (1)~~

##### Major: 36

##### Required Courses:

[ANTH 211 - Cultural Anthropology](#)

Credits: 3

[ANTH 222 - Biological Anthropology](#)

Credits: 3

[ANTH 233 - Language and Culture](#)

Credits: 3

[ANTH 244 - Basic Archaeology](#)

Credits: 3

##### Two methods courses:

[ANTH 456 - Ethnographic Research Methods](#)

Credits: 3

[ANTH 457 - Applied Anthropology](#)

Credits: 3

##### One theory course:

[ANTH 480 - Anthropology Seminar](#)

Credits: 3

##### Controlled Electives:

##### One area course from the following:

[ANTH 271 - Cultural Area Studies: Africa](#)

Credits: 3

[ANTH 272 - Culture Area: China](#)

Credits: 3

[ANTH 273 - Cultural Area Studies: Southeast Asia](#)

Credits: 3

[ANTH 274 - Cultural Area Studies: Latin America](#)

Credits: 3

[ANTH 314 - Contemporary Native American Cultures](#)

Credits: 3

[ANTH 370 - Latinos and Diasporas](#)

Credits: 3

One ANTH elective (any level)

Credits: 3

One ANTH elective (300-400 level)

Credits: 3

[ANTH 493 - Internship in Anthropology](#)

Credits: 3-12(2)

or

[ANTH 460 - Ethnographic Field School](#)

Credits: 6 (2)

Free Electives: 26-38 (3)

Total Degree Requirements: 120

### Proposed Program:

#### Applied Track, Anthropology, BA

##### Liberal Studies: 46-47

As outlined in the [Liberal Studies Requirements](#) with the following specifications:

##### Mathematics:

[MATH 217 - Probability and Statistics](#)

Credits: 3

##### Social Science:

[GEOG 104 - World Geography: Global Context](#) (recommended)

Credits: 3

##### Liberal Studies Electives: 6

No courses with ANTH prefix

##### Major: 36-44

##### Required Courses:

[ANTH 211 - Cultural Anthropology](#)

Credits: 3

[ANTH 222 - Biological Anthropology](#)

Credits: 3

[ANTH 233 - Language and Culture](#)

Credits: 3

[ANTH 244 - Basic Archaeology](#)

Credits: 3

##### Two methods courses:

[ANTH 456 - Ethnographic Research Methods](#)

Credits: 3

[ANTH 457 - Applied Anthropology](#)

Credits: 3

##### One theory course:

[ANTH 480 - Anthropology Seminar](#)

Credits: 1-3

##### Controlled Electives:

##### One area course from the following:

[ANTH 271 - Cultural Area Studies: Africa](#)

Credits: 3

[ANTH 272 - Culture Area: China](#)

Credits: 3

[ANTH 273 - Cultural Area Studies: Southeast Asia](#)

Credits: 3

[ANTH 274 - Cultural Area Studies: Latin America](#)

Credits: 3

[ANTH 314 - Contemporary Native American Cultures](#)

Credits: 3

[ANTH 370 - Latinos and Diasporas](#)

Credits: 3

One ANTH elective (any level)

Credits: 3

One ANTH elective (300-400 level)

Credits: 3

[ANTH 493 - Internship in Anthropology](#)

Credits: 3-12(2)

or

[ANTH 460 - Ethnographic Field School](#)

Credits: 6 (2)

**Foreign Language: 0-8**

~~Foreign Language Basic/Elementary II level (102 level) (2)~~

Free Electives: 29-38 (3)

Total Degree Requirements: 120

~~(1) Intermediate level foreign language may be included in Liberal Studies electives.~~

(2) An internship or ethnographic field school is highly desirable but may be replaced by 3-6cr of pragmatic skill courses upon approval of the advisor.

(3) State System Board of Governors policy states that at least 40 percent of the course work in a degree must consist of courses numbered 300 and above.

## ii. Current Program:

### Archaeology Track, Anthropology, BA

#### Liberal Studies: 46-47

As outlined in the [Liberal Studies Requirements](#) with the following specifications:

#### Mathematics:

[MATH 217 - Probability and Statistics](#)

Credits: 3

#### Natural Science:

Geoscience courses recommended (1)

#### Social Science:

[ANTH 213 - World Archaeology](#) (required)

[GEOG 104 - World Geography: Global Context](#) (recommended)

Credits: 3

Credits: 3

#### Liberal Studies Electives: 6

No courses with ANTH prefix

#### College: 0-8

~~Foreign Language Intermediate Level (1)~~

#### Major: 36

#### Required Courses:

[ANTH 211 - Cultural Anthropology](#)

Credits: 3

[ANTH 213 - World Archaeology](#)

Credits: 3

[ANTH 222 - Biological Anthropology](#)

Credits: 3

[ANTH 233 - Language and Culture](#)

Credits: 3

[ANTH 244 - Basic Archaeology](#)

Credits: 3

#### Controlled Electives:

#### Three Methods Courses:

[ANTH 320 - Archaeological Field School](#)

Credits: 3

[ANTH 325 - Archaeological Lab Methods](#)

Credits: 3

[ANTH 415 - Cultural Resource Management](#)

Credits: 3

#### Two Theory Courses:

[ANTH 425 - Archaeological Theory and](#)

[Research Design](#)

Credits: 3

[ANTH 480 - Anthropology Seminar](#)

Credits: 3

#### One Archaeology Area Course

Such as

[ANTH 315 - North American Archaeology](#)

Credits: 3

[ANTH 323 - Mesoamerican Archaeology](#)

Credits: 3

[ANTH 333 - The Archaeology of Early China](#)

Credits: 3

Any Two Anthropology Courses from the Following:

[ANTH 250 - Human Origins](#)

Credits: 3

[ANTH 271 - Cultural Area Studies: Africa](#)

Credits: 3

[ANTH 272 - Culture Area: China](#)

Credits: 3

[ANTH 274 - Cultural Area Studies: Latin America](#)

Credits: 3

[ANTH 310 - Voyages of Discovery](#)

Credits: 3

[ANTH 314 - Contemporary Native American Cultures](#)

Credits: 3

[ANTH 318 - Museum Methods](#)

Credits: 3

[ANTH 370 - Latinos and Diasporas](#)

(1) An internship or ethnographic field school is highly desirable but may be replaced by 3-6cr of pragmatic skill courses upon approval of the advisor.

(2) Foreign language may be included in Liberal Studies electives.

(3) State System Board of Governors policy states that at least 40 percent of the course work in a degree must consist of courses numbered 300 and above.

## Proposed Program:

### Archaeology Track, Anthropology, BA

#### Liberal Studies: 46-47

As outlined in the [Liberal Studies Requirements](#) with the following specifications:

#### Mathematics:

[MATH 217 - Probability and Statistics](#)

Credits: 3

#### Natural Science:

Geoscience courses recommended (1)

#### Social Science:

[ANTH 213 - World Archaeology](#) (required)

Credits: 3

[GEOG 104 - World Geography: Global Context](#) (recommended)

Credits: 3

#### Liberal Studies Electives: 6

No courses with ANTH prefix

#### Major: 36-44

#### Required Courses:

[ANTH 211 - Cultural Anthropology](#)

Credits: 3

[ANTH 213 - World Archaeology](#)

Credits: 3

[ANTH 222 - Biological Anthropology](#)

Credits: 3

[ANTH 233 - Language and Culture](#)

Credits: 3

[ANTH 244 - Basic Archaeology](#)

Credits: 3

#### Controlled Electives:

#### Three Methods Courses:

[ANTH 320 - Archaeological Field School](#)

Credits: 6 (2, 3)

[ANTH 325 - Archaeological Lab Methods](#)

Credits: 3

[ANTH 415 - Cultural Resource Management](#)

Credits: 3

#### Two Theory Courses:

[ANTH 425 - Archaeological Theory and](#)

[Research Design](#)

Credits: 3

[ANTH 480 - Anthropology Seminar](#)

Credits: 1-3

#### One Archaeology Area Course

Such as

[ANTH 315 - North American Archaeology](#)

Credits: 3

[ANTH 323 - Mesoamerican Archaeology](#)

Credits: 3

[ANTH 333 - The Archaeology of Early China](#)

Credits: 3

Any Two Anthropology Courses from the Following:

[ANTH 250 - Human Origins](#)

Credits: 3

[ANTH 271 - Cultural Area Studies: Africa](#)

Credits: 3

[ANTH 272 - Culture Area: China](#)

Credits: 3

[ANTH 274 - Cultural Area Studies: Latin America](#)

Credits: 3

[ANTH 310 - Voyages of Discovery](#)

Credits: 3

[ANTH 314 - Contemporary Native American Cultures](#)

Credits: 3

[ANTH 318 - Museum Methods](#)

Credits: 3

[ANTH 370 - Latinos and Diasporas](#)

Credits: 3

[ANTH 420 - Environmental Anthropology](#)

Credits: 3

[ANTH 470 - Environmental Archaeology](#)

Credits: 3

[ANTH 484 - Specialized Methods in Archaeology](#)

Credits: 3

<a href="#">ANTH 420 - Environmental Anthropology</a>	Credits: 3	<a href="#">ANTH 486 - Historic Artifacts</a>	Credits: 3 (3)
<a href="#">ANTH 470 - Environmental Archaeology</a>	Credits: 3	<a href="#">ANTH 487 - Geoarchaeology</a>	Credits: 3
<a href="#">ANTH 484 - Specialized Methods in Archaeology</a>	Credits: 3	<a href="#">ANTH 488 - Geophysical Applications in Archaeology</a>	Credits: 3
<a href="#">ANTH 486 - Historic Artifacts</a>	Credits: 3		
<a href="#">ANTH 487 - Geoarchaeology</a>	Credits: 3	<a href="#">ANTH 489 - Prehistoric Technologies of Eastern North America</a>	Credits: 3
<a href="#">ANTH 488 - Geophysical Applications in Archaeology</a>	Credits: 3	<a href="#">ANTH 490 - Applied Spatial Methods in Archaeology</a>	Credits: 3
	Credits: 3		Credits: 3
<a href="#">ANTH 489 - Prehistoric Technologies of Eastern North America</a>	Credits: 3	<a href="#">ANTH 491 - Zooarcheology</a>	Credits: 3
<a href="#">ANTH 490 - Applied Spatial Methods in Archaeology</a>	Credits: 3	<a href="#">ANTH 492 - Soil Science: Archaeological and Geoenvironmental Applications</a>	Credits: 3
<a href="#">ANTH 491 - Zooarcheology</a>	Credits: 3	<a href="#">ANTH 496 - Human Osteology</a>	Credits: 3
<a href="#">ANTH 492 - Soil Science: Archaeological and Geoenvironmental Applications</a>	Credits: 3	<a href="#">ANTH 497 - Forensic Anthropology</a>	Credits: 3
<a href="#">ANTH 496 - Human Osteology</a>	Credits: 3		
<a href="#">ANTH 497 - Forensic Anthropology</a>	Credits: 3	<b>Foreign Language: 0-8</b>	
		Foreign Language Basic/Elementary II level (102 level) (4)	

Free Electives: 29-38 (6, 7)

**Total Degree Requirements: 120**

- (1) Determine the specific courses in consultation with academic advisor.
- ~~(2) Intermediate level foreign language may be included in Liberal Studies electives.~~
- ~~(3) Courses counted toward Liberal Studies credits do not receive duplicate credit in major.~~
- (4) With department approval, an equivalent field school with lab component from another university may be used.
- (5) May be repeated for credit with departmental approval but may only count once toward the requirements of the Archaeology Track.
- (6) A minor in geoscience, geography, history, or other approved field is recommended. An internship ([ANTH 493](#)) also is recommended. The student's advisor should be consulted.
- (7) State System Board of Governors policy states that at least 40 percent of the course work in a degree must consist of courses numbered 300 or above.

Free Electives: 29-38 (5, 6)

**Total Degree Requirements: 120**

- (1) Determine the specific courses in consultation with academic advisor.
- (2) With department approval, an equivalent field School with lab component from another university may be used.
- (3) May be repeated for credit with departmental approval but may only count once toward the requirements of the Archaeology Track.
- (4) Foreign language may be included in Liberal Studies electives.
- (5) A minor in geoscience, geography, history, or other approved field is recommended. An internship ([ANTH 493](#)) also is recommended. The student's advisor should be consulted.
- (6) State System Board of Governors policy states that at least 40 percent of the course work in a degree must consist of courses numbered 300 or above.

**Rationale:** With the dissolution of CHSS there will no longer be a CHSS foreign language requirement. The Anthropology Department wishes to retain a language requirement and is adding a language requirement to its program requirements. The department language requirement will include completion of the Basic II or Elementary II level (102 course level), or equivalent, of a language. The Anthropology Department is also using this opportunity to remove a footnote that is no longer applicable after an earlier revision.

**7. Public Health Program—Program Revision, Program Title Change, Program Catalog Description Change, and Program Deletions** APSCUF Rep Council approved

**a. Program Revision:**



## Current Program:

### Public Health, BS [with tracks in a\) Behavioral and Mental Health, b\) Environmental and Occupational Health, c\) Epidemiology and Biostatistics, or d\) Global and Rural Communities](#)

#### Liberal Studies: 46-47

As outlined in the Liberal Studies Requirements with the following specifications:

**Humanities:** ~~PHIL 122~~ or PHIL130

**Mathematics:** MATH 217; ~~MATH 121\*~~

**Natural Science:** BIOL 104, BIOL 119

**Social Science:** ~~ANTH 110 or 211, GEOG 104 or RGPL 103,~~ PSYC 101, SOC 151 or 161

**Liberal Studies Electives:** ~~ECON 122,~~ FDNT 145

~~\*Epidemiology/Biostatistics Track Req~~

#### Major: ~~30-33~~

##### Core Requirements:

BIOL 301 - Fundamentals of Epidemiology **Credits: 3**

ECON 360 - Health Economics **Credits: 3**

~~GEOG/RGPL316—Introduction to Geographic Information Systems **Credits: 3**~~

NURS 410 - Health Promotion and Social Issues **Credits: 3**

NURS 455 - Health Care Informatics **Credits: 3**

NURS/ELR 314 - Health Policy and Law **Credits: 3**

PUBH 122 - Foundations of Public Health **Credits: 3**

PUBH 306 - Research Design and Analysis in Public Health **Credits: 3**

PUBH 493 - Internship in Public Health **Credits: 3**

SOC 442 - Medical Sociology **Credits: 3**

##### **Behavioral and Mental Health Track Courses: 18**

~~PSYC 332—Community Psychology and Prevention Science **Credits: 3**~~

~~PSYC 374—Stress and Coping **Credits: 3**~~

~~SOC 361—Social Stratification **Credits: 3**~~

or

~~SOC 362—Racial and Ethnic Minorities **Credits: 3**~~

or

~~SOC 363—Sociology of Gender **Credits: 3**~~

~~SOC 448—Social Welfare Policy **Credits: 3**~~

~~Two controlled electives **Credits: 6**~~

##### **Free Electives: 22-26**

##### **Environmental and Occupational Track Courses: 23**

~~BIOL 221—Environmental health and Protection **Credits: 3**~~

~~BIOL 323—Introduction to Toxicology and Risk Assessment **Credits: 3**~~

~~CHEM 101—College Chemistry I **Credits: 4**~~

~~CHEM 102—College Chemistry II **Credits: 4**~~

~~SAFE 330—Recognition, Evaluation, and Control of Occupational Health Hazards **Credits: 3**~~

or

~~SAFE 430—Recognition, Evaluation, and Control of Occupational Health Hazards II **Credits: 3**~~

~~SAFE 335—Industrial and Environmental Stressors **Credits: 3**~~

~~SAFE 361—Air and Water Pollution **Credits: 3**~~

##### **Free Electives: 17-21**

## Proposed Program:

### Public Health, BS

#### Liberal Studies: 43-46

As outlined in Liberal Studies Requirements with the following specifications:

**Humanities:** PHIL130

**Mathematics:** MATH 217

**Natural Science:** BIOL 104, BIOL 119

**Social Science:** PSYC 101, SOC 151 or SOC 161 (GMA), ~~ECON 101~~

**Liberal Studies Electives:** 3-6 (1), FDNT 145

#### Major: 43

##### Core Requirements: (1)

ANTH 240 - Introduction to Global Health **Credits: 3**

or

SOC 454 - Dimensions of Rural Public Health **Credits: 3**

ANTH 444 - Medical Anthropology **Credits: 3**

or

SOC 442 - Medical Sociology **Credits: 3**

BIOL 301 - Fundamentals of Epidemiology **Credits: 3**

ECON 360 - Health Economics **Credits: 3**

~~FDNT 422 - Public Health Nutrition and Epidemiology **Credits: 3**~~

NURS 101 - Disaster Awareness **Credits: 1**

NURS 410 - Health Promotion and Social Issues **Credits: 3**

NURS 455 - Health Care Informatics **Credits: 3**

NURS/ELR 314 - Health Policy and Law **Credits: 3**

~~PSYC 332 - Community Psychology and Prevention **Credits: 3**~~

PUBH 122 - Foundations of Public Health **Credits: 3**

~~PUBH 306 - Research Design and Analysis in Public Health **Credits: 3**~~

PUBH 493 - Internship in Public Health **Credits: 6**

SOC 448 - Social Welfare Policy **Credits: 3**

##### Controlled Electives: 6-8

ANTH 110 - Contemporary Anthropology **Credits: 3**

ANTH 222 - Biological Anthropology **Credits: 3**

BIOL 106 - Human Genetics and Health **Credits: 3**

~~BIOL 116 - Human Genetics and Health Laboratory **Credits: 1**~~

BIOL 150 - Human Anatomy **Credits: 4**

FDNT 212 - Nutrition **Credits: 3**

FDNT 213 - Life Cycle Nutrition **Credits: 3**

~~GEOG/RGPL 316 - Introduction to Geographic Information Systems **Credits: 3**~~

KHSS 221 - Human Structure and Function **Credits: 3**

~~KHSS 251 - Fundamentals of Safety and Emergency Health Care **Credits: 3**~~

KHSS 252 - Introduction to Driving Task **Credits: 3**

KHSS 325 - School and Community Health **Credits: 3**

KHSS 343 - Exercise Physiology **Credits: 3**

~~KHSS 417 - Contemporary Issues in School and Community Health **Credits: 3**~~

LGBT 200 - Introduction to Lesbian, Gay,



**Epidemiology and Biostatistics Track Courses:**

~~CHEM 101—College Chemistry I Credits: 4~~  
~~CHEM 102—College Chemistry II Credits: 4~~  
~~FDNT 422—Public Health Nutrition and Epidemiology Credits: 3~~  
~~KHSS 472—Epidemiology of Physical Activity Credits: 3~~  
~~MATH 216—Probability and Statistics for Natural Sciences Credits: 3~~  
~~MATH 411—Univariate Data Analysis Credits: 3~~  
~~MATH 412—Multivariate Data Analysis Credits: 3~~

**Free Electives: 17-21**

**Global and Rural Communities Track Courses: 21**

~~ANTH 240—Introduction to Global Health Credits: 3~~  
~~SOC 454—Dimensions of Rural Public Health Credits: 3~~  
~~ANTH/SOC 450—Health Disparities Credits: 3~~  
~~GEOG 454—GIS Analysis of Public Health Credits: 3~~  
~~Three controlled electives Credits: 9~~

**Free Electives: 17-21**

**Total Degree Requirements: 120**

Bisexual, Transgender, and Queer Studies Credits: 3  
MATH 411 - Univariate Data Analysis Credits: 3  
MATH 412 - Multivariate Statistics Credits: 3  
PSYC 225 - Abnormal Psychology Credits: 3  
PSYC 374 - Stress and Coping Credits: 3  
PUBH 493 - Internship Credits: 3  
SAFE 101 – Introduction to Occupational Safety and Health Credits: 3  
SAFE 111 - Principles of Safety I--General Industry Credits: 3  
SOC 361 - Social Stratification Credits: 3  
SOC 362 - Racial and Ethnic Minorities Credits: 3  
SOC 363 – Sociology of Gender Credits: 3  
SOC 452 - Disability and Society Credits: 3

**Suggested Minors to assist in choice of electives:**

Anthropology; Applied Statistics; Biology; Child and Adult Advocacy Studies; Community Health; Economics; Exercise Science; Geography; Global Health; LGBT&Q Studies; Nutrition; Psychology; Regional Planning; Safety, Health, and Environmental Sciences; Sociology; Spanish; Women’s and Gender Studies

**Free Electives: 23-28**

**Total Degree Requirements: 120**

(1) Must maintain a 2.5 cumulative GPA & “C” or better in Core Requirements.

**b. Program Deletions:**

- Behavioral and Mental Health Track, Public Health, BS**
- Environmental and Occupational Health Track, Public Health, BS**
- Epidemiology and Biostatistics Track, Public Health, BS**
- Global and Rural Communities Track, Public Health, BS**

**c. Program Catalog Description Change:**

**Current Catalog Description:**

The Bachelor of Science in Public Health graduate will help meet Pennsylvania’s workforce needs in public health and health care related fields and will help meet the strong demand for trained public health professionals projected by national and regional studies. This degree will prepare students for jobs in health administration, community health, and health education. Upon completion of the program, students will understand the science of human physical and mental health, the epidemiology of infectious and chronic diseases as well as the complications of the US and global health care systems with regard to access and ethics of the disparities in health care delivery. The program provides students with options to focus on four academic areas: Environmental and Occupational Health, Behavioral and Mental Health, Epidemiology and Biostatistics, and Global and Rural Communities.

**Proposed Catalog Description:**

A major in Public Health will provide flexibility and personalized options based upon the student's career goals and graduate education aspirations. Students learn to improve health through a

multidisciplinary core curriculum grounded in the social, natural and health sciences. Upon completion of the program, students will understand the science of human health, epidemiology of infectious and chronic diseases as well as complications of the US and global health care systems with regard to access and ethics of disparity in health care delivery. Through advising, students are encouraged to acquire a minor or a certificate with their electives that will enhance their knowledge in a specific area related to Public Health. These include but are not limited to: Anthropology; Applied Statistics; Biology; Community Health; Economics; Exercise Science; Geography; Global Health; LGBT&Q Studies; Nutrition; Psychology; Regional Planning; Safety, Health, and Environmental Sciences; Sociology; Spanish; and Women's and Gender Studies. Students will receive academic advisement, depending on their career plans, to assist with the selection of controlled electives in their progression to graduation. A career in public health opens the door to diverse opportunities in a variety of sectors such as federal, state, and local organizations, private, and non-governmental organizations. Professional jobs related to public health include Health Education, Research Assistant, Wellness/Health Coach, Medical Social Workers and more. Many graduates choose to further education in a master's degree program such as Health Services Administration or a Master of Public Health (MPH).

The total credits required is 120. Students must also maintain a cumulative GPA of 2.5 and a "C" or better in all of the required core Public Health courses.

**Rationale:** The Bachelor of Science in Public Health (PUBH) is offered by the Public Health program, an interdisciplinary degree program that is housed in the College of Health and Human Services with collaboration from the College of Humanities and Social Sciences and the Kopchick College of Natural Sciences and Mathematics. The undergraduate Public Health program provides students with a broad interdisciplinary foundation of the essential public health core competencies.

Since its inception in 2017, the Public Health program remains one of the only truly interdisciplinary undergraduate degrees that requires collaboration with three colleges and multiple departments across the university. The core curriculum introduces students to the essential public health competencies while allowing students to specialize in one of four academic tracks. While the program's interdisciplinary nature is a strength and should be continued, the program must undergo some revisions and changes in order to meet Council for Education in Public Health (CEPH) accreditation standards and address concerns raised through the INSPIRE process.

After an in-depth examination into advising, evaluation of the current interdisciplinary core curriculum, and review and research of the Council for Education in Public Health (CEPH) accreditation standards, it has become clear that we will be unable to keep the current four tracks (Behavioral and Mental Health, Environmental and Occupational Health, Epidemiology and Biostatistics, and Global and Rural Health) due to lack of resources and financial constraints with accrediting four tracks in addition to the core program itself. Moreover, it has become apparent from qualitative discussion with IUP PH students and examination of competing public health programs that advising toward a minor would better serve the needs of the students while providing flexibility and expanding on the student's potential future scope of practice.

Furthermore, during the INSPIRE process it was noted that the current PH program has some similarities to other standalone programs. However, as currently designed the IUP PH program has four transcripted tracks which each would require separate credentialing by CEPH. To date, there are 53 students enrolled in the programs four tracks, an uptick in enrollment of approximately 20% from AY 2019-2020 to AY 2020-2021 and a 130% increase from the first year of the program AY 2017-2018 to AY 2020-2021. Additionally, the 3-year persistence rate for the program is at 75%.

Additionally, during our review we noted that several course offerings included in the tracks were limited or not offered or had very low success rates (failing grade and D/F repeat or required course substitution). This situation makes it difficult for students to complete the tracks or creates issues with being too stringent of a program for students transferring from other majors. This is unfortunate as the PH major is a great option for students who would like to dual major or may not have been successful in other health related disciplines as well as other majors across the university.

**8. Department of Mathematical and Computer Sciences—New Courses, Dual List, Track Deletion, Program Catalog Description Change, and Program Revision**  
**APSCUF Rep Council approved**

**a. New Courses and Dual List Approval:**

**i. MATH 316 Data Science Fundamentals**

**Class Hours:** 3

**Lab/Discussion:** 0

**Credits:** 3

**Prerequisites:** COSC 341 and one of MATH 214 or MATH 216 or MATH 217

Introduces the field of data science by covering the methodology in which data-intensive problems are identified, defined, and solved. Surveys data analysis and data mining techniques for finding patterns in data that emphasizes, using data models, data gathering and storage, selection and preparing of data, model building and testing, and interpreting and validating results. Utilizes hands-on experiences with data science tools and techniques, specific topics include map-reduce and mining data streams. Includes techniques for visualizing patterns in data, including interactive visualization.

**Rationale:** This course is part of the B.S. in Mathematics, Data Science Track. It is designed to engage students in learning and practice of the fundamentals of data science. It is the first of a two course sequence providing core data science content, with the second course building on these fundamentals with more theoretical concepts and additional applications. IUP Admissions studied areas of increasing student interest for possible growth in recruitment opportunities-- as data science is one of the fastest rapidly growing career areas, it is likely to attract more students to IUP. This is also an INSPIRE-related program modification. Students in other degree programs who meet prerequisites may be interested in taking this course as many career areas can utilize data science concepts.

**Dual List Rationale:** Graduate students in the M.S in Applied Mathematics program have some programming background but most have limited software engineering and database management background. Furthermore, undergraduates who are in the data science track have completed their required database management course prior to this course and are likely also taking the software engineering course. By putting two groups together, graduate students can share their knowledge in mathematical theory, modeling, and analysis and undergraduate students can provide their understanding of various aspects of computer science. One goal of this course is to have students collaborate on a data science project; working together will enhance student learning and provide a setting similar to career-related interdisciplinary teams where participants bring a variety of skills to solving real-world problems.

**ii. MATH 418 Data Science Theory and Application**

**Class Hours:** 3

**Lab/Discussion:** 0

**Credits:** 3

**Prerequisites:** MATH 171 and MATH 316

Covers acquiring, managing, and analyzing massive unstructured data through a project-driven approach. Includes theoretical analysis of clustering, visualization, link analysis, recommendation systems, mining social network graphs, dimensionality reduction with PCA and SVD, large-scale machine learning, neural nets and deep learning, distributed file systems, incremental data processing with Hadoop, NoSQL databases, cloud computing, and data security issues. Covers applications in web advertising, business, engineering, health care and social networks. Implements a computational project utilizing machine learning and artificial intelligence techniques.

**Rationale:** This course is part of the B.S. in Mathematics, Data Science Track. It is designed to engage students in learning and practice of the theory and applications of data science. It is the second of a two course sequence providing core data science content, with the first course exposing students to fundamentals with this course covering more theoretical concepts and additional applications. IUP Admissions studied areas of increasing student interest for possible growth in recruitment opportunities-- as data science is one of the fastest rapidly growing career areas, it is likely to attract more students to IUP. This is also an INSPIRE-related program modification. Students in other degree programs who meet pre-requisites may be interested in taking this course as many career areas can utilize data science concepts.

**Dual List Rationale:** Graduate students in the M.S in Applied Mathematics program have some programming background but most have limited software engineering and database management background. Furthermore, undergraduates who are in the data science track have completed their required database management course prior to this course and are likely to also have taken the software engineering course. By putting two groups together, graduate students can share their knowledge in mathematical theory, modeling, and analysis and undergraduate students can provide their understanding on various aspects of computer science. One goal of this course is to have students collaborate on a data science project; working together will enhance student learning and provide a setting similar to career-related interdisciplinary teams where participants bring a variety of skills to solving real-world problems. Graduate students will be expected to understand and explore theoretical issues at a significantly deeper level than undergraduates.

**b. Dual List for existing Undergraduate Course:**

**MATH 448 Introduction to Financial Mathematics**

**Class Hours:** 3

**Lab/Discussion:** 0

**Credits:** 3

A rigorous mathematical treatment of the theory associated with financial transactions is undertaken in this course. Geometric series and other concepts are used to construct mathematical models for analytically pricing various financial securities based on the time value of money. The course studies how to construct mathematical models for pricing cash flows and explores the equivalency of different cash flows. Topics include a detailed study of interest theory and

financial economics. This course prepares students for the Society of Actuaries Financial Mathematics (FM) exam.

**Rationale:** Most of graduate students in the M.S in Applied Mathematics program don't have any accounting or finance background and undergraduates who are in the actuarial science track have taken economics, introduction to accounting and finance courses prior to this course. By putting two groups together, graduate students can share their knowledge in mathematical modeling/analysis and undergraduate students can provide their understanding on aspects of accounting and finance. One goal of this course is to help students pass the Financial Mathematics exam hosted by the Society of Actuaries (SOA), which is a requirement for any professional credentials from both SOA and Casualty Actuarial Society. Having those students who are interested in actuary career working together will enhance students' persistency in preparing and passing actuary exams.

**c. Track Deletion:**

**Applied Mathematics Track, Mathematics, BS**

**Rationale:** Applied Mathematics is being changed from a standalone track of the BS Mathematics program to a concentration area under the Mathematics Track/Mathematics, BS. This will allow students greater flexibility with their degree options and course choices, as the list of possible elective courses and course combination options are being expanded. Students who are currently enrolled as Applied Mathematics Track, Mathematics, BS majors will be able to complete their degrees with no changes because all of the necessary courses will still be offered by MACS.

**d. Program Revision:**

**Current Program:**

**Mathematics Track, Mathematics, BS**

~~Applied Mathematics Track, Mathematics, BS~~

**Liberal Studies: 46-47**

As outlined in the Liberal Studies Requirements with the following specifications:

**Mathematics:**

MATH 125 - Calculus I/Physics, Chemistry, Mathematics

**Credits: 3**

**Liberal Studies Electives:** 6, no course with MATH prefix, intermediate-level foreign language required

**Proposed Program:**

**Mathematics Track, Mathematics, BS**

**Liberal Studies: 46-47**

As outlined in the Liberal Studies Requirements with the following specifications:

**Mathematics:**

MATH 125 - Calculus I/Physics, Chemistry, Mathematics

**Credits: 3**

**Liberal Studies Electives:** 6, no course with MATH prefix, intermediate-level foreign language required

**Major: 40-41**

**Required Courses:**

- MATH 111 - First-year Seminar
- MATH 126 - Calculus II/Physics, Chemistry, Mathematics
- MATH 171 - Introduction to Linear Algebra
- MATH 216 - Probability and Statistics for Natural Science
- MATH 225 - Calculus III/Physics, Chemistry, Mathematics
- MATH 271 - Introduction to Mathematical Proofs I
- MATH 272 - Introduction to Mathematical Proofs II
- MATH 341 - Differential Equations
- MATH 480 - Seminar in Mathematics

**Controlled Electives:**

~~Four~~ courses from the following: **12**

- MATH 371 - Linear Algebra **Credits: 3**
- MATH 421 - Advanced Calculus I **Credits: 3**
- MATH 422 - Advanced Calculus II **Credits: 3**
- MATH 423 - Complex Variables **Credits: 3**
- MATH 427 - Introduction to Topology **Credits: 3**
- MATH 476 - Abstract Algebra I **Credits: 3**
- MATH 477 - Abstract Algebra II **Credits: 3**
- ~~A minimum of 3 additional credits from the list above or the following: 3-4~~
- MATH 342 - Advanced Mathematics for Applications **Credits: 3**
- ~~MATH 350 - History of Mathematics **Credits: 3**~~
- ~~MATH 353 - Theory of Numbers **Credits: 3**~~
- ~~MATH 355 - Foundations of Geometry I **Credits: 3**~~
- MATH 363 - Mathematical Statistics I **Credits: 3**
- MATH 364 - Mathematical Statistics II **Credits: 3**
- MATH 445 - Deterministic Models in Operations Research **Credits: 3**
- MATH 446 - Probabilistic Models in Operations Research **Credits: 3**
- MATH 447 - Modeling and Simulation **Credits: 3**

**Other Requirements: 3**

**Computer Science:**

- COSC 110 - Problem Solving and Structural Programing **Credits: 3**

**Free Electives: 29-31**

**Total Degree Requirements: 120**

**Applied Mathematics Track, Mathematics, BS**

**Major: 43**

**Required Courses:**

- MATH 111 - First-year Seminar **Credits: 1**
- MATH 126 - Calculus II/Physics, Chemistry, Mathematics **Credits: 3**
- MATH 171 - Introduction to Linear Algebra **Credits: 3**
- MATH 216 - Probability and Statistics for Natural Science **Credits: 3**
- MATH 225 - Calculus III/Physics, Chemistry, Mathematics **Credits: 3**

**Major: 25**

**Required Courses:**

- MATH 111 - First-year Seminar **Credits: 1**
- MATH 126 - Calculus II/Physics, Chemistry, Mathematics **Credits: 3**
- MATH 171 - Introduction to Linear Algebra **Credits: 3**
- MATH 216 - Probability and Statistics for Natural Science **Credits: 3**
- MATH 225 - Calculus III/Physics, Chemistry, Mathematics **Credits: 3**
- MATH 271 - Introduction to Mathematical Proofs I **Credits: 3**
- MATH 272 - Introduction to Mathematical Proofs II **Credits: 3**
- MATH 341 - Differential Equations **Credits: 3**
- Choose one course from:**
- MATH 480 - Seminar in Mathematics (1) **Credits: 3**
- MATH 493 - Internship in Mathematics (2) **Credits: 3-12**

**Concentration Area: select one concentration**

**Pure Mathematics Concentration 27-28**

- COSC 110 - Problem Solving and Structured Programming **Credits: 3**
- Choose six courses from among:**
- MATH 353 - Theory of Numbers **Credits: 3**
- MATH 355 - Foundations of Geometry I **Credits: 3**
- MATH 371 - Linear Algebra **Credits: 3**
- MATH 421 - Advanced Calculus I **Credits: 3**
- MATH 422 - Advanced Calculus II **Credits: 3**
- MATH 423 - Complex Variables **Credits: 3**
- MATH 427 - Introduction to Topology **Credits: 3**
- MATH 476 - Abstract Algebra I **Credits: 3**
- MATH 477 - Abstract Algebra II **Credits: 3**

**Choose two courses from among:**

- MATH 342 - Advanced Mathematics for Application **Credits: 3**
- MATH 363 - Mathematical Statistics I **Credits: 3**
- MATH 364 - Mathematical Statistics II **Credits: 3**
- MATH 416 - Time Series Analysis **Credits: 3**
- MATH 445 - Deterministic Models in Operations Research **Credits: 3**
- MATH 446 - Probabilistic Models in Operations Research **Credits: 3**
- MATH 447 - Modeling and Simulation **Credits: 3**
- MATH 448 - Financial Mathematics **Credits: 3**
- MATH 481 - Special Topics **Credits: 3**

**Free Electives for Pure Math Concentration: 20-22**

**Applied Mathematics Concentration: 35-36**

**Required Courses:**

- COSC 110 - Problem Solving and Structured Programming **Credits: 3**
- COSC/MATH 343 - Introduction to Numerical Methods **Credits: 3**
- MATH 363 - Mathematical Statistics I **Credits: 3**
- MATH 447 - Modeling and Simulation **Credits: 3**
- MATH 450 - Topics in Applied Computational Mathematics **Credits: 3**
- Planned program in complementary field (3)

MATH 271 - Introduction to Mathematical Proofs I	Credits: 3	<b>Choose one course from among:</b>	Credits: 11
MATH 272 - Introduction to Mathematical Proofs II	Credits: 3	MATH 342 - Advanced Mathematics for Applications	Credits: 4
MATH 341 - Differential Equations	Credits: 3	MATH 364 - Mathematical Statistics II	Credits: 3
MATH 363 - Mathematical Statistics I	Credits: 3	MATH 445 - Deterministic Models in Operations Research	Credits: 3
MATH 447 - Modeling and Simulation	Credits: 3	MATH 446 - Probabilistic Models in Operations Research	Credits: 3
MATH 450 - Topics in Applied Computational Mathematics	Credits: 3	<b>Choose one additional course from among:</b>	
<b>Controlled Electives: (2)</b>	Credits: 3	MATH 445 - Deterministic Models in Operations Research	Credits: 3
One course from the following:		MATH 446 - Probabilistic Models in Operations Research	Credits: 3
MATH 342 - Advanced Mathematics for Applications	Credits: 3	<b>Choose one course from among:</b>	
MATH 364 - Mathematical Statistics II	Credits: 3	MATH 353 - Theory of Numbers	Credits: 3
MATH 445 - Deterministic Models in Operations Research	Credits: 3	MATH 371 - Linear Algebra	Credits: 3
MATH 446 - Probabilistic Models in Operations Research	Credits: 3	MATH 421 - Advanced Calculus I	Credits: 3
		MATH 423 - Complex Variables	Credits: 3
One course from the following:	Credits: 3	MATH 427 - Introduction to Topology	Credits: 3
MATH 371 - Linear Algebra	Credits: 3	MATH 476 - Abstract Algebra I	Credits: 3
MATH 421 - Advanced Calculus I	Credits: 3		
MATH 423 - Complex Variables	Credits: 3	<b>Free Electives for Applied Math Concentration:</b>	<b>12-14</b>
MATH 427 - Introduction to Topology	Credits: 3	<b>Data Science Concentration</b>	
MATH 476 - Abstract Algebra I	Credits: 3	<b>Required Courses:</b>	
One course from the following:		MATH 316 - Data Science Fundamentals	Credits: 3
MATH 445 - Deterministic Models in Operations Research	Credits: 3	MATH 411 - Univariate Data Analysis	Credits: 3
or		MATH 412 - Multivariate Statistics	Credits: 3
MATH 446 - Probabilistic Models in Operations Research	Credits: 3	MATH 418 - Data Science Theory and Application	Credits: 3
One course from the following:		MATH 446 - Probabilistic Models in Operations Research	Credits: 3
MATH 480 - Seminar in Mathematics	Credits: 3	MATH 447 - Modeling and Simulation	Credits: 3
or		<b>Choose one course from among:</b>	
MATH 493 - Internship in Mathematics (3)	Credits: 3	COSC 405 - Artificial Intelligence	Credits: 3
<b>Other Requirements: 17</b>	Credits: 11	MATH 363 - Mathematical Statistics I	Credits: 3
Planned program in complementary field: requires advisor approval and at least 6cr in courses 300 level or above		MATH 371 - Linear Algebra	Credits: 3
<b>Computer Science:</b>		MATH 416 - Time Series Analysis	Credits: 3
COSC 110 - Problem Solving and Structured Programming	Credits: 3	MATH 445 - Deterministic Models in Operations Research	Credits: 3
COSC/MATH 343 - Introduction to Numerical Methods	Credits: 3		

**Free Electives: 13-14**

**Total Degree Requirements: 120**

(1) Students should take 2 credits of MATH 480 in Spring of junior year and 1 credit in Spring of senior year.

~~(2) A student may select courses for a specialized area: Math Analysis/Engineering: MATH 342/447, 371, 423 Operations Research: MATH 371, 421, 445/446, 447 -Statistics/Actuarial Science: MATH 363, 364, 371, 446; additionally, a student should minor in applied statistics.~~

(3) Three credits of internship will be applied to the major. Additional credits may count as free electives.

**Free Electives for Data Science Concentration: 9-13**

**Total Degree Requirements: 120**

(1) Students should take 2 credits of MATH 480 in Spring of junior year and 1 credit in Spring of senior year. Data Science Track students can substitute COSC 473 for MATH 480.

(2) 3 credits of Internship will be applied to the major. Any additional credits may be used as free electives. Data Science Track students can substitute 3 credits of COSC 493 for MATH 493.



(3) Requires advisor approval and at least 6cr in courses at 300 level or above.

(4) Recommended COSC 310 and COSC 319.

#### e. Program Catalog Description Change:

##### Current Catalog Description:

The program for a mathematics major in the Kopchick College of Natural Sciences and Mathematics has three options. A student may pursue a degree ~~with a major~~ in mathematics or a degree with a major in mathematics with a concentration in either applied mathematics or actuarial science. Those completing a degree with a major in mathematics will be prepared to continue their studies in mathematics in graduate school, though some may enter business, industry, or government service. Students receiving a mathematics degree with a concentration in applied mathematics will be primarily prepared to enter business, industry, or government service in an area where mathematics or computer science is used, or to continue their studies in applied mathematics or computer science in graduate school. Students in the actuarial science ~~concentration~~ take additional course work in finance and economics, preparing them to complete the first two professional actuarial exams and to pursue employment in the areas of insurance and investment.

##### Proposed Catalog Description:

The program for a mathematics major in the Kopchick College of Natural Sciences and Mathematics has three options. A student may pursue a degree in mathematics **with a track focused on actuarial science and statistics**, or a degree with a major in mathematics with a concentration in either applied mathematics, **pure mathematics, or data science**. Those completing a degree in mathematics **with a concentration in pure mathematics** will be prepared to continue their studies in mathematics in graduate school, though some may enter business, industry, or government service. Students receiving a mathematics degree with a concentration in applied mathematics will be primarily prepared to enter business, industry, or government service in an area where mathematics or computer science is used, or to continue their studies in applied mathematics or computer science in graduate school. **Students earning a mathematics degree with a data science concentration will gain skills on utilizing complex databases to provide real world, real-time solutions that incorporate predictive analytics and forecasting to improve decision making. Students are ready for careers that utilize quantitative modeling techniques, including probability, statistics, optimization, simulation, and computing, in the design of solutions to data-driven problems.** Students in the actuarial science and statistics **track** take additional course work in finance and economics, preparing them to complete the first two professional actuarial exams and to pursue employment in the areas of insurance and investment.

**Rationale:** As an approved INSPIRE plan, the current B.S. Mathematics/Applied Mathematics track content is being merged into the B.S. Mathematics/Mathematics track as a concentration area. An additional concentration area for Data Science is being added to the Mathematics track. Creating one program with three concentration areas gives students more flexibility to choose electives and therefore more flexibility in completing the program. This also aligns better with student and market demand as the field of mathematics is increasingly becoming more heavily applied, and Data Science is an area of growth in the job market.

#### 9. Department of Management—Program Revision

**APSCUF Rep Council approved**

##### Current Program:

### **Management Minor (1)**

~~(for business majors in the ECOBIT only)~~

#### **Required Courses:**

MGMT 275 - Introduction to Entrepreneurship **Credits: 3**

MGMT 300 - Human Resource Management **Credits: 3**

MGMT 310 - Principles of Management **Credits: 3**

MGMT 434 - Industrial Quality: Statistical Tools and Management **Credits: 3**

MGMT 451 - International Management **Credits: 3**

One MGMT ~~1XX, 2XX~~, 3XX, or 4XX course 3cr

#### **Total Minor Requirements: 18**

(1) Minor course requirements must be completed with a minimum cumulative GPA of 2.0.

### **Proposed Program:**

(for all IUP majors except management)

### **Management Minor (1)(2)**

#### **Required Courses: 6**

MGMT 310 - Principles of Management **Credits: 3**

**MGMT 311 - Human Behavior in Organizations Credits: 3**

#### **Controlled Electives: 12**

Select 12 additional credits from the following list:

**BCOM 321 - Business and Interpersonal Communication Credits: 3**

**MATH (214, 216, or 217) - Probability and Statistics Credits: 3**

MGMT 275 - Introduction to Entrepreneurship **Credits: 3**

MGMT 300 - Human Resource Management **Credits: 3**

MGMT 434 - Quality Management **Credits: 3**

MGMT 451 - International Management **Credits: 3**

**MGMT 461 - Business Leadership Theory Credits: 3**

One MGMT 3XX or 4XX course or BCOM 3XX or 4XX **Credits: 3**

Up to two courses from the major (with approval) **Credits: 6**

#### **Total Minor Requirements: 18**

(1) Only up to 6 credits, out of the total required 18 credits for the minor, may be part of the student's major with approval of the minor advisor.

(2) Business students' core courses are considered part of the major.

**Rationale:** This version of the minor will replace the current version of the minor, which was open only to Business Students. There is considerable interest in this minor from various departments on campus. This revised minor will complement many programs on campus and provide a marketable expertise for our students. However, as we indicated in INSPIRE 3, the minor must be modified so that non-business majors can successfully pursue this minor.

## **10. Departments of Management and Marketing—Modification of Prerequisite**

### **APSCUF Rep Council approved**

#### **Current Course Titles and Prerequisites:**

**MKTG 350 International Business**

**Class Hours:** 3  
**Lab/Discussion:** 0  
**Credits:** 3

**Prerequisites:** MGMT 310

**MGMT 350 International Business**

**Class Hours:** 3  
**Lab/Discussion:** 0  
**Credits:** 3

**Prerequisites:** MGMT 310

**Proposed Course Titles and Prerequisites:****MKTG 350 International Business**

**Class Hours:** 3  
**Lab/Discussion:** 0  
**Credits:** 3

**Prerequisites:** None

**MGMT 350 International Business**

**Class Hours:** 3  
**Lab/Discussion:** 0  
**Credits:** 3

**Prerequisites:** None

**Rationale:** This is a 300-level survey course developed in the context of global business. Another general management course such as MGMT 310 - a survey course in the context of general business and management - is not required for students to comprehend the contents of MGMT/MKTG 350. This will allow many more students - both business and non-business - to explore global business in general.

**11. Big Ideas Program–New Course and New Certificate****APSCUF Rep Council approved****a. New Course****CHSS 461 - Big Ideas Capstone**

**Class Hours:** var  
**Lab/Discussion:**  
**Credits:** 1-3

**Prerequisites:** Junior or senior standing; Big Ideas certificate; 2.5 cumulative grade point average; Certificate director's approval  
 Supervised experience in conjunction with IUP course work, lab work, or in a public/private organization that compliments on-going research by situating that work within a humanities and liberal arts context and a public presentation.

**Rationale:** This is the final component to the Big Idea Certificate. It requires students to draw upon the training in the humanities and liberal arts they acquired during their first 3 years and apply it to senior-level work in their major. The ability to contextualize and communicate disciplinary-specific work and outcomes enhances student career prospects, particularly mid-career promotions.

**b. New Certificate**

## **Big Ideas: Transformative Culture and Professions Certificate**

Below are the 4 guided pathways through the Big Ideas certificate.

### **Big Ideas: Law and Government**

Central Concept: Social Organization

How does a just society function?

All societies have rules that determine what is and is not acceptable, who does and does not belong, and what steps to take when these determinations are transgressed. The migration of people across the globe, change and diversity among populations within a nation, and contact with different cultures puts pressure on these rules and how they are enforced, requiring informed citizens to examine what their society does, how it does it, whether or not it is desirable, and why. The Law and Government concentration explores a wide range of historical, social, and cultural contexts, preparing students to ask questions about power, politics, ethics, and communal membership as they become leaders shaping the societies of tomorrow.

- No more than 2 classes per department may be counted towards the certificate.
- Only 1 class from a student's major may be counted towards the certificate.
- One 1 100-level course may be counted towards the certificate.
- Substitution of courses may be approved by the director.

#### **Required Core Courses: (1)**

CHSS 122 - Big Ideas I, Ancient to Enlightenment **Credits: 3**

CHSS 123 - Big Ideas II, Enlightenment to Present **Credits: 3**

CHSS 461 - Big Ideas Capstone **Credits: 1-6**

Students will select **3** courses from the following:

ARHI 100 - Arts of the 20th Century **Credits: 3**

ANTH 352 - The Anthropology of Human Rights **Credits: 3**

ENGL 212 - American Literature: Beginnings to 1900 **Credits: 3**

ENGL 226 - Survey of Global Literature Since 1900 **Credits: 3**

ENGL 227 - Introduction to Legal Writing **Credits: 3**

ENGL 265 - Law and Literature **Credits: 3**

ENGL 348 - African American Literature **Credits: 3**

ENGL 396 - The Literature of Emerging Nations **Credits: 3**

HIST 206 - The History of East Asia **Credits: 3**

HIST 232 - Stalin and Hitler and the Terror State **Credits: 3**

HIST 251 - United States Military History **Credits: 3**

HIST 265 - History of Power: Its uses and abuses **Credits: 3**

HIST 311 - Rise and Fall of Hitler's Empire **Credits: 3**

HIST 312 - Europe, 1914-1945: The Age of Dictators and Imperiled Democracies **Credits: 3**

HIST 313 - Europe Since 1945: Division, Revolution, and Unity **Credits: 3**

HIST 348 - Top Secret America: The Rise and Reach of the National Security State **Credits: 3**

HIST 362 - History of American Diplomacy, 1900-present **Credits: 3**

HIST 437 - History of Modern Japan **Credits: 3**

PHIL 323 - Political Philosophy **Credits: 3**

PHIL 390 - Philosophy of Human Nature **Credits: 3**

PHIL 450 - Philosophy of Law **Credits: 3**

PLSC 111 - Power and Democracy in America **Credits: 3**

PLSC 250 - Public Policy **Credits: 3**  
PLSC 283 - American Foreign Policy **Credits: 3**  
PLSC 351 - Legislative Process **Credits: 3**  
PLSC 358 - Judicial Process **Credits: 3**  
PLSC 359 - Constitutional Law and Civil Liberties **Credits: 3**  
PLSC 422 - International Law and Organizations **Credits: 3**  
RLST 120 - Comparative Religious Ethics **Credits: 3**  
SOC 231 - Contemporary Social Problems **Credits: 3**  
SOC 333 - Delinquency and Youth **Credits: 3**  
SOC 337 - Society, Globalization, and Risk **Credits: 3**  
SOC 361 - Social Stratification **Credits: 3**  
SOC 387 - Social and Cultural Change **Credits: 3**  
SOC 448 - Social Welfare Policy **Credits: 3**  
SOC 458 - Political Sociology **Credits: 3**  
THTR 313 - American Theatre Between the Wars **Credits: 3**

### **Big Ideas: Mind, Body, and Health**

Central Concept: Health

What does it mean for a person to be healthy?

The health sciences increasingly recognize the necessity of considering the whole person, mind and body, when it comes to helping people become and stay healthy. This requires moving beyond the quantifiable body into dimensions of emotions, imagination, history, cultural practices and the various subtleties that impact and influence human life. The Mind, Body, and Health concentration brings together courses from a variety of disciplines outside of the sciences to help students think beyond the scientific emphasis of health and medicine and reinforce the important connection of social and cultural contexts to enhance the quality healthcare.

- No more than 2 classes per department may be counted towards the certificate.
- Only 1 class from a student's major may be counted towards the certificate.
- One 100-level course may be counted towards the certificate.
- Substitution of courses may be approved by the director.

### **Required Core Courses: (1)**

CHSS 122 - Big Ideas I, Ancient to Enlightenment **Credits: 3**  
CHSS 123 - Big Ideas II, Enlightenment to Present **Credits: 3**  
CHSS 461 - Big Ideas Capstone **Credits: 1-6**

Students will select **3** courses from the following:

ARHI 205 - Ancient to Medieval Art **Credits: 3**  
ARHI 207 - Renaissance through Modern Art **Credits: 3**  
ANTH 110 - Contemporary Anthropology **Credits: 3**  
ANTH 240 - Introduction to Global Health **Credits: 3**  
ANTH 430 - Anthropology of Food **Credits: 3**  
ANTH 444 - Medical Anthropology **Credits: 3**  
ENGL 222 - Technical Writing **Credits: 3**  
ENGL 225 - Introduction to Literature by Women **Credits: 3**  
ENGL 337 - Myth **Credits: 3**  
ENGL 341 - Poetry **Credits: 3**

ENGL 350 - Gender and Sexual Orientation in Literature, Theory, and Film **Credits: 3**  
HIST 240 - Zombies: A Cultural History of Death, Disease, and Technology **Credits: 3**  
PHIL 130 - Introduction to Biomedical Ethics **Credits: 3**  
PHIL 240 - Philosophy and the Good Life **Credits: 3**  
PHIL 326 - Existentialism **Credits: 3**  
PHIL 360 - Philosophy of Mind **Credits: 3**  
PHIL 390 - Philosophy of Human Nature **Credits: 3**  
PLSC 370 - The Practice of Public Administration **Credits: 3**  
RLST 120 - Comparative Religious Ethics **Credits: 3**  
RLST 245 - Women and Religion **Credits: 3**  
SOC 151 - Principles of Sociology **Credits: 3**  
or  
SOC 161 - Foundations of Sociology: Social Relations in Groups and Organizations **Credits: 3 (2)**  
SOC 251 - Sociology of Human Sexuality **Credits: 3**  
SOC 335 - Alcohol and Drug Abuse **Credits: 3**  
SOC 357 - Sociology of Aging and the Life-Course **Credits: 3**  
SOC 362 - Racial and Ethnic Minorities **Credits: 3**  
SOC 363 - Sociology of Gender **Credits: 3**  
SOC 410 - Men and Masculinities **Credits: 3**  
SOC 442 - Medical Sociology **Credits: 3**  
SOC 452 - Disability and Society **Credits: 3**  
SOC 454 - Dimension of Rural Public Health **Credits: 3**  
THTR 214 - History and Literature: Tragedy **Credits: 3**  
THTR 215 - History and Literature: Comedy **Credits: 3**

### **Big Ideas: Management, Information, and Organization**

Central Concept: Information

What does useful information look like?

Management, information, organization all rely on the recognition and effective communication of information. To be successful and lead in rapidly changing industries requires an understanding of the textures of the information we possess, the rich potential of the diverse people we manage, and the contextual factors that contribute to how people see information: how they identify, assimilate, interpret it, as well as how vital ideas and impactful details can be miscommunicated or overlooked. The Management, Information, and Organization concentration illuminates factors that limit and misconstrue information, as well as those that can create a culture of innovation, communication, and trust by exploring the cultural histories and practices that inform how people develop and exchange information and how to maximize its values across different projects and populations.

- No more than 2 classes per department may be counted towards the certificate.
- Only 1 class from a student's major may be counted towards the certificate.
- One 1 100-level course may be counted towards the certificate.
- Substitution of courses may be approved by the director.

### **Required Core Courses: (1)**

CHSS 122 - Big Ideas I, Ancient to Enlightenment **Credits: 3**  
CHSS 123 - Big Ideas II, Enlightenment to Present **Credits: 3**  
CHSS 461 - Big Ideas Capstone **Credits: 1-6**

Students will select **3** courses from the following:

ARHI 207 - Renaissance through Modern Art **Credits: 3**  
 ANTH 271 - Cultural Area Studies: Africa **Credits: 3**  
 ANTH 272 - Cultural Area Studies: China **Credits: 3**  
 ANTH 273 - Cultural Area Studies: Southeast Asia **Credits: 3**  
 ANTH 274 - Cultural Area Studies Latin America **Credits: 3**  
 ENGL 212 - American Literature: Beginnings to 1900 **Credits: 3**  
 ENGL 222 - Technical Writing **Credits: 3**  
 ENGL 226 - Survey of Global Literature Since 1900 **Credits: 3**  
 ENGL 227 - Introduction to Legal Writing **Credits: 3**  
 ENGL 265 - Law and Literature **Credits: 3**  
 ENGL 310 - Public Speaking **Credits: 3**  
 ENGL 321 - Persuasive Speech and Writing **Credits: 3**  
 ENGL 421 - Digital Writing **Credits: 3**  
 HIST 265 - History of Power: Its uses and abuses **Credits: 3**  
 HIST 348 - Top Secret America: The Rise and Reach of the National Security State **Credits: 3**  
 HIST 379 - History in the Digital Age **Credits: 3**  
 PHIL 450 - Philosophy of Law **Credits: 3**  
 PHIL 460 - Philosophy of Language **Credits: 3**  
 PLSC 250 - Public Policy **Credits: 3**  
 PLSC 282 - International Relations **Credits: 3**  
 PLSC 370 - The Practice of Public Administration **Credits: 3**  
 PLSC 375 - Crisis Management and Decision Making **Credits: 3**  
 PLSC 389 - International Development Strategies **Credits: 3**  
 PLSC 422 - International Law and Organizations **Credits: 3**  
 RLST 120 - Comparative Religious Ethics **Credits: 3**  
 SOC 151 - Principles of Sociology **Credits: 3**  
 or  
 SOC 161 - Foundations of Sociology: Social Relations in Groups and Organizations **Credits: 3 (2)**  
 SOC 231 - Contemporary Social Problems **Credits: 3**  
 SOC 337 - Society, Globalization, and Risk **Credits: 3**  
 SOC 345 - Sociological Social Psychology **Credits: 3**  
 SOC 348 - Sociology of Work **Credits: 3**  
 SOC 421 - Sociology of Mass Media **Credits: 3**  
 THTR 313 - American Theatre Between the Wars **Credits: 3**  
 WGS 200 - Introduction to Women's and Gender Studies **Credits: 3**

### **Big Ideas: Science and the Environment**

Central Concept: Discovery

How does the world work?

From the dark riddles of black holes to the perplexities of sub-atomic particles, the physical world holds an untellable number of mysteries, and we turn to science to get answers to our questions about the nature of our environment. Scientific theories and practices do not emerge from the straightforward accumulation of facts, but from a set of changing intellectual conditions of possibility that are entirely human, and therefore, what we can discover is only as limited as our ability to discover new ways of asking questions. The Science and Environment concentration brings together disciplinary methods outside of the sciences to explore the factors that limit the questions we ask, how they are asked, and who is invited to ask them while integrating methods of inquiry from the humanities and arts, emboldening students to ask unexpected and innovative questions about their world that will give the answers they need to face the challenges of the future.



- No more than 2 classes per department may be counted towards the certificate.
- Only 1 class from a student's major may be counted towards the certificate.
- One 1 100-level course may be counted towards the certificate.
- Substitution of courses may be approved by the director.

**Required Core Courses: (1)**

CHSS 122 - Big Ideas I, Ancient to Enlightenment **Credits: 3**

CHSS 123 - Big Ideas II, Enlightenment to Present **Credits: 3**

CHSS 461 - Big Ideas Capstone **Credits: 1-6**

Students will select **3** courses from the following:

ARHI 205 - Ancient to Medieval Art **Credits: 3**

ARHI 207 - Renaissance through Modern Art **Credits: 3**

ANTH 110 - Contemporary Anthropology **Credits: 3**

ANTH 211 - Cultural Anthropology **Credits: 3**

ANTH 413 - Archaeology of Coasts **Credits: 3**

ANTH 420 - Environmental Anthropology **Credits: 3**

ANTH 430 - Anthropology of Food **Credits: 3**

ANTH 444 - Medical Anthropology **Credits: 3**

ANTH 470 - Environmental Archaeology **Credits: 3**

ENGL 222 - Technical Writing **Credits: 3**

ENGL 341 - Poetry **Credits: 3**

ENGL 361 - Environmental Literature **Credits: 3**

ENGL 421 - Digital Writing **Credits: 3**

HIST 240 - Zombies: A Cultural History of Death, Disease, and Technology **Credits: 3**

HIST 385 - People in Nature: An Introduction to Environmental History **Credits: 3**

PHIL 221 - Symbolic Logic I **Credits: 3**

PHIL 270 - Ethics and the Environment **Credits: 3**

PHIL 330 - Philosophy of Science **Credits: 3**

PLSC 250 - Public Policy **Credits: 3**

PLSC 355 - Intergovernmental Relations **Credits: 3**

PLSC 370 - The Practice of Public Administration **Credits: 3**

RLST 365 - Native North American Religions **Credits: 3**

SOC 151 - Principles of Sociology **Credits: 3**

or

SOC 161 - Foundations of Sociology: Social Relations in Groups and Organizations **Credits: 3 (2)**

SOC 337 - Society, Globalization, and Risk **Credits: 3**

SOC 345 - Sociological Social Psychology **Credits: 3**

SOC 442 - Medical Sociology **Credits: 3**

SUST 201 - Introduction to Sustainability Studies **Credits: 3**

WGS 200 - Introduction to Women's and Gender Studies **Credits: 3**

(1) Students must complete both CHSS 122 and CHSS 123. ENGL 121; ENGL 122; FNLG 121; and MUHI 102 may not be substituted for CHSS 122 or CHSS 123.

(2) Either SOC 151 OR SOC 161 may fulfill a certificate component. Students may NOT receive certificate credit for both SOC 151 and SOC 161.

**Rationale:** This certificate is designed to integrate and embed the humanities and the liberal arts into career preparation particularly for students in pre-professional majors and Science, Technology,

Engineering, and Science majors (STEM), providing them with a competitive edge in the workplace. Provides students with a foundational knowledge of transformative literature and ideas from around the world. Creates life-long learners, open to the world, and sensitive to other points of view. Exposes students to the ideas, skill set, and inspiration that emanate from the humanities. Fills a workplace demand for fundamental reading, writing, analytical, and life skills.

## **12. Department of Biology–Variability of Deliveries, Course Revision, Credit/Lab Hour Change, and Catalog Description Changes **APSCUF Rep Council approved****

### **a. Variability of Delivery:**

#### **i. Pre-veterinary Track, Biology, BS**

**Rationale:** More than 33% of our required BS Biology/Pre-veterinary track biology courses have been approved for DE format, thus making our program eligible for a Variability of Delivery proposal. The proposed BS Biology/Pre-veterinary track is designed to serve both (non)traditional IUP and other (non) PASSHE university students. Depending on the needs of our student population, we would like to offer our BS Biology/Pre-veterinary track in a Blended format. We believe that the availability of a DE option for our Biology courses: (i) allows us to strategically offer our majors courses during winter and summer so that our students can complete their BS Biology/Pre-veterinary degree in a timely fashion; (ii) opens the possibility of collaborating with other PASSHE BS Pre-veterinary tracks/programs and providing their students' access to our upper level specialized courses; (iii) provides enrollment opportunity for interested non-traditional students to our core Biology courses, and thus increase the possibility of their enrollment into our BS program. Since courses are currently being offered in traditional as well as DE format, no additional resources are needed to implement this change in delivery. Additionally, program outcomes and/or course outcomes will not be impacted by this change.

#### **ii. Secondary Science Education Certification**

**Rationale:** For majors in Biology, Chemistry, Geoscience and Physics who wish to pursue 31-credit Pennsylvania Department of Education Level I certification for teaching in public schools, we offer a sub-baccalaureate Secondary Science Education Certificate that consists of all the general education and science-specific education coursework necessary to meet PDE requirements. Completion of the certificate coursework ensures that these students will be eligible to apply for PA Level I certification.

Since more than 33% of our required general and science-specific education courses have been approved for DE format, it makes our Secondary Science Education Certificate eligible for a Variability of Delivery proposal. The proposed Secondary Science Education Certificate is designed to serve both IUP and other PASSHE university students, thus we would like to offer our Secondary Science Education Certificate in a Blended format. We believe that the availability of a DE option for these education courses (i) opens the possibility of collaborating with other PASSHE Science Education programs and providing their students' access to our courses as well as our Certificate; and (ii) will be an attractive recruiting tool for MS Biology and post-baccalaureate programs.

Since courses are currently being offered for the various BS programs in Biology, Chemistry, Geoscience, and Physics in traditional as well as DE format, no additional resources are needed to implement this change in delivery. Additionally, Certificate outcomes and/or course outcomes will not be impacted by this change.

**b. Course Revision and Credit/Lab Hour Changes:**

**Current Catalog Description:**

**SCI 104 - Fundamentals of Environmental Biology**

**Class Hours:** 2

**Lab/Discussion:** 2

**Credits:** 2.5

**Prerequisites:** Must be enrolled in one of the following Majors: Early Childhood Education/Special Education major or Early Childhood Education major  
Introduces the major concepts and principles of ecology and their application to modern living. Includes lecture and laboratory components with an emphasis on the content and processes of science. Laboratory exercises reinforce lecture topics as well as the use of laboratory equipment, measuring procedures, experimental design, and the organization, visual representation, and analysis of data.

**Proposed Catalog Description:**

**SCI 104 – Fundamentals of Environmental Biology**

**Class Hours:** 3

**Lab/Discussion:** 2

**Credits:** 4

**Prerequisites:** Must be enrolled in one of the following Majors: Early Childhood Education/Special Education major or Early Childhood Education major  
Introduces the major concepts and principles of ecology and their application to modern living. Includes lecture and laboratory components with an emphasis on the content and processes of science. Laboratory exercises reinforce lecture topics as well as the use of laboratory equipment, measuring procedures, experimental design, and the organization, visual representation, and analysis of data.

**Rationale:** As indicated in the attached letter of support, ECED and ECEX majors used to be required to take three of the four sciences. With recent program revisions and updates, they will now select two science courses, like most other majors, one lab and one non-lab for seven credits which would still meet the liberal studies requirements. It has been difficult for students to schedule three sciences because the courses are no longer offered each semester as they were in the past. Additionally, these changes are requested because in our current programs, the sciences are all 2.5 credits. Having courses with fractional credits make scheduling for students and faculty workload awkward and challenging. Changes are being made at the request of the Department of Professional Studies in Education.

**c. Catalog Description Changes:**

**i. Current Catalog Description:**

**Biology, BS or Biology, BS with Secondary Science Education Certificate**

**BS-Biology**

In addition to the bachelor of science degree with no specialization, the department also offers these specialized bachelor of science tracks: Cell and Molecular Biology; Ecology, Conservation, and Evolutionary Biology; Environmental Health; Honors Biology; Pre-medical Biology; and Pre-

veterinary Biology. Students who pursue the Pre-medical or Pre-veterinary Track must maintain a minimum cumulative GPA of 3.0 after their third semester in the program to continue in that track. All students, including transfer students, must have a cumulative GPA of 3.0 or higher to transfer into the Pre-medical or Pre-veterinary Track after their third semester. For qualified BS Biology Pre-medical track students with a GPA of 3.25 and above, there is an interdisciplinary dual baccalaureate offering. Additionally, students in each track will have the opportunity to apply the free electives credits towards a minor from Biology, such as Animal Behavior, Biomedical Science, Forensic Biosciences, Environmental Microbiology, Neurobiology, Wildlife and Conservation Biology, or others of interest. Please refer to the section on individual Biology department Minors for their description and curricular requirements. Also please refer to the different Biology degree program and tracks for detailed distribution of credits, curricular requirements, and interdisciplinary opportunities.

**Interdisciplinary Dual Baccalaureate: BS Biology/Pre-medical Track and BS Medical Technology**

This dual baccalaureate is an interdisciplinary, collaborative program between two colleges to meet work force demands and provide viable career options to our post baccalaureate students. Dr. Joyce Shanty (Allied Health Professions Programs Coordinator, College of Health and Human Services) will collaborate with Biology faculty and help academically to advise students in the dual baccalaureate program.

The curricular structure in the dual Bachelor of Science degree in BS Biology/Pre-medical Track and BS Medical Technology would be a natural fit for students seeking to work as a medical technologist in a clinical, laboratory, or biotechnology setting. This program would also benefit students seeking employment experience prior to medical or graduate school admissions.

Students with a GPA of 3.25 and above enrolled in the BS Medical Technology/BS Biology-Pre-medical dual degree programs would be eligible to apply for a one year of clinical experience with an affiliated, hospital-based schools of Medical Technology. Areas of instruction will be consistent with requirements of the National Accrediting Agency of Clinical Laboratory Sciences. Following training the students will qualify for the national certification examination. Successful results on this examination will lead to certification as professionally qualified medical technologist/clinical laboratory scientist.

Upon completion of the clinical training at an articulated clinical affiliate, IUP will grant 30 credits that which will be applied to the student's transcript towards their Bachelor of Science degree in Medical Technology. Qualified students in this program would have completed a minimum of 150 credits, to receive a Dual Bachelor of Science in Biology/Pre-medical Track and Medical Technology along with Certification to work as a professionally qualified medical technologist.

The bachelor of science degree program in biology with no specialization is designed to provide maximum depth in the biological sciences the sciences and mathematics, combined with flexibility in the choice of ancillary science courses for an interdisciplinary minor. This program allows the student (in consultation with the advisor) to graduate with an interdisciplinary minor and a minor from biology such as Animal Behavior, Environmental Microbiology, Forensic Biosciences, Biomedical Science, Neurobiology, or Wildlife and Conservation Biology. With proper selections from among ancillary science courses, a student could minor in any of the following: biochemistry, chemistry, geoscience, or applied statistics. Furthermore with proper selection of free electives, a student could minor in either mathematics or physics.

The department also offers a **Secondary Science Certificate** for students interested in teaching. Completion of the Certificate in Secondary Science Teaching requirements as part of their BS in Biology program prepares students to become certified middle- and high-school teachers in Pennsylvania and other states. Biology teachers in grades 7 to 12 teach subjects that require a broad

and solid foundation in Biology, as well as other sciences and mathematics. Courses in the foundations of education and pedagogy complement the subject matter studies. Students create and present lessons, first in their courses and then in school classrooms, culminating in the student teaching experience in the final semester.

### **Proposed Catalog Description:**

#### **Biology, BS or Biology, BS with Secondary Science Education Certificate**

##### **BS-Biology**

In addition to the bachelor of science degree with no specialization, the department also offers these specialized bachelor of science tracks: Cell and Molecular Biology; Ecology, Conservation, and Evolutionary Biology; Honors Biology; Pre-medical Biology; and Pre-veterinary Biology. Students who pursue the Pre-medical or Pre-veterinary Track must maintain a minimum cumulative GPA of 3.0 after their third semester in the program to continue in that track. All students, including transfer students, must have a cumulative GPA of 3.0 or higher to transfer into the Pre-medical or Pre-veterinary Track after their third semester. For qualified BS Biology Pre-medical track students with a GPA of 3.0 and above, there is an interdisciplinary dual baccalaureate offering. Additionally, students in each track will have the opportunity to apply the free electives credits towards a minor from Biology, such as Animal Behavior, Biomedical Science, Forensic Biosciences, Environmental Microbiology, Neurobiology, Wildlife and Conservation Biology, or others of interest.

Please refer to the section on individual Biology department Minors for their description and curricular requirements. Also please refer to the different Biology degree program and tracks for detailed distribution of credits, curricular requirements, and interdisciplinary opportunities.

The bachelor of science degree program in biology with no specialization is designed to provide maximum depth in the biological sciences the sciences and mathematics, combined with flexibility in the choice of ancillary science courses for an interdisciplinary minor. This program allows the student (in consultation with the advisor) to graduate with an interdisciplinary minor and a minor from biology such as Animal Behavior, Environmental Microbiology, Forensic Biosciences, Biomedical Science, Neurobiology, or Wildlife and Conservation Biology. With proper selections from among ancillary science courses, a student could minor in any of the following: biochemistry, chemistry, geoscience, or applied statistics. Furthermore with proper selection of free electives, a student could minor in either mathematics or physics.

The department also offers a **Secondary Science Education Certificate** for students interested in teaching. Completion of the Certificate in Secondary Science Teaching requirements as part of their BS in Biology program prepares students to become certified middle- and high-school teachers in Pennsylvania and other states. Biology teachers in grades 7 to 12 teach subjects that require a broad and solid foundation in Biology, as well as other sciences and mathematics. Courses in the foundations of education and pedagogy complement the subject matter studies. Students create and present lessons, first in their courses and then in school classrooms, culminating in the student teaching experience in the final semester.

##### **Interdisciplinary Dual Baccalaureate: BS Biology/Pre-medical Track and BS Medical Technology**

This dual baccalaureate is an interdisciplinary, collaborative program between two colleges to meet work force demands and provide viable career options to our post baccalaureate students. Dr. Joyce Shanty (Allied Health Professions Programs Coordinator, College of Health and Human Services) will collaborate with Biology faculty and help academically to advise students in the dual baccalaureate program.

The curricular structure in the dual Bachelor of Science degree in BS Biology/Pre-medical Track and BS Medical Technology would be a natural fit for students seeking to work as a medical technologist in a clinical, laboratory, or biotechnology setting. This program would also benefit students seeking employment experience prior to medical or graduate school admissions.

Students with a GPA of 3.0 and above enrolled in the BS Medical Technology/BS Biology-Pre-medical dual degree programs would be eligible to apply for a one year of clinical experience with an affiliated, hospital-based schools of Medical Technology. Areas of instruction will be consistent with requirements of the National Accrediting Agency of Clinical Laboratory Sciences. Following training the students will qualify for the national certification examination. Successful results on this examination will lead to certification as professionally qualified medical technologist/clinical laboratory scientist.

Upon completion of the clinical training at an articulated clinical affiliate, IUP will grant 30 credits that which will be applied to the student's transcript towards their Bachelor of Science degree in Medical Technology. Qualified students in this program would have completed a minimum of 150 credits, to receive a Dual Bachelor of Science in Biology/Pre-medical Track and Medical Technology along with Certification to work as a professionally qualified medical technologist.

**Emergency Medical Responder (EMR), Emergency Medical Technician (EMT), and Paramedic Certification:** The Department of Biology has entered into a collaborative credit transfer agreement to allow our students to obtain credit by completing the EMR, EMT, or Paramedic programs of the Institute for Rural Health and Safety and the Department of Kinesiology, Health, and Sport Science. Please contact the Biology office for details on course schedules, substituting Biology courses for these credits, and the certification criteria for these clock hour programs.

**Pre-medical and Pre-veterinary Advisory Committee:** Pre-medical and pre-veterinary track Biology students interested in applying to professional schools are generally required to submit a committee letter that addresses student skills and academic preparation. To continue our student-centered academic mission, our pre-medical and pre-veterinary advisory committee goals are to streamline student undergraduate and professional preparation; improve communication, collaboration, and engagement among faculty advisors and students from recruitment through graduation and beyond; and build stronger relationships with alumni through mentorships, internships and business partnerships. In alignment with these academic and curricular goals, Biology committee members will perform mock interviews for Biology students pursuing professional training, and author committee recommendations and professional school evaluation letters on behalf of Biology students, with specific focus upon individual student achievements and curricular training

## **ii. Current Catalog Description:**

### **Cell and Molecular Biology Track, Biology, BS**

Students electing the bachelor of science degree with an emphasis in cell and molecular biology take the core biology courses and, in addition, a collection of upper-division courses that focus collectively on important aspects of modern cell and molecular biology. This track will prepare students for employment in technical positions or for graduate studies in cell biology, molecular biology, biotechnology, or related biomedical disciplines.

### **Proposed Catalog Description:**

### **Cell and Molecular Biology Track, Biology, BS**

The Cell and Molecular Biology (CMB) track with the proposed Minors (Biomedical Science, Environmental Microbiology, Forensic Biosciences), is a comprehensive track with a broad science background that prepares students and provides the flexibility to take advantage of a range of careers requiring a strong science related curriculum. For qualified and highly motivated CMB students, we also offer a pathway to graduate in three years.

The CMB bioscience core and biomedical electives helps prepare students for entry into medical, dental, or other professional school programs (please refer to individual professional school programs for their specific requirements). All these experiences are contained within the single, comprehensive major in CMB that is designed to prepare graduates with knowledge and skills for immediate employment in biotechnology, forensics, biopharmaceuticals, and various health fields. They also provide for an excellent preparation of students who seek admission into graduate (for example, biomedical engineering, genetic counseling, public health) and professional programs.

**Rationale:** We are updating our catalog descriptions to reflect our 2020/2021 curricular revisions and collaborative agreements.

**13. Department of Human Development, Fashion, and Interior Design—New Courses, Course Revisions, Course Title Changes, Catalog Description Changes, Modification of Prerequisites, Course Deletion, Program Revision, Program Title Change, Program Catalog Description Change, and New Minor**

**APSCUF Rep Council approved**

**a. New Courses:**

**i. FSMR 125 - Cultural Studies of Dress and Appearance**

**Class Hours:** 3

**Lab/Discussion:** 0

**Credits:** 3

**Prerequisites:** None

Examines contemporary, traditional, and ethnic dress and appearance practices. Incorporates the application of cultural theory to appearance as well as how social and psychological forces shape conceptions of beauty and appropriateness in clothing, appearance, and fashion.

**Rationale:** Further rationale for creating this course is to help attract students to the revised Fashion Studies program from throughout the university and beyond. By offering the course as a LS Social Science and GMA, this will not only benefit our fashion students by allowing them to take another applicable fashion course as part of their Liberal Studies requirements but also those students who often find current LS offerings inapplicable to future career goals or interests. Students interested in Art, Theatre, Anthropology, Sociology, and Women's Studies among others would benefit from this course's content and approach.

**ii. FSMR 290 - Advanced Principles in Apparel Buying**

**Class Hours:** 3

**Lab/Discussion:** 0

**Credits:** 3

**Prerequisites: FSMR 280**

Focuses on advanced mathematical concepts in merchandising applications used for apparel buying. Addresses the developing and determining unit and dollar assortment plans, cost of merchandise, profitability, inventory control, and retail sale prices.

**Rationale:** The FSMR 280 course was revised to cover the most basic mathematical concepts in merchandising applications for apparel buying. A new course, FSMR 290: Advanced Principles in Apparel Buying, was developed to focus on advanced mathematical concepts in merchandising applications for apparel buying. FSMR 280 and FSMR 290 content cannot be incorporated into an existing course because its volume and depth prevent it from being implemented effectively without detracting from a current course's educational quality.

**iii. FSMR 359 - E-Commerce for Fashion**

**Class Hours:** 3

**Lab/Discussion:** 0

**Credits:** 3

**Prerequisites: FSMR 258**

Explores aspects of building an Internet business and learn a business process to start a new business that focuses specifically on the Internet shopping mall. Design an Internet marketing plan to create an Internet business in the Fashion Industry.

**Rationale:** E-Commerce for Fashion was created and offered three times as FSMR 281- E-Commerce for Fashion. The importance of E-Commerce in the fashion industry has been elevated and it is now very important to educate students in this subject area. Students are required to take FSMR 258 - Fashion Brand Merchandising before taking E-commerce for Fashion. Students will develop their brand in the FSMR 258 class, and with the brand, they will build an E-Commerce store.

**b. Course Revisions (Some with Course Title Changes):**

**i. Current Course Description:**

**FSMR 280 - Introduction to Apparel Buying**

**Class Hours:** 3

**Lab/Discussion:** 0

**Credits:** 3

**Prerequisites: FSMR 180** with a grade of C or better and **ACCT 201**

Focuses on using mathematical concepts in merchandising applications used for apparel buying. Students will develop and determine assortment plans, cost of merchandise, profitability, and retail sales prices.

**Proposed Course Description:**

**FSMR 280 - Introduction to Apparel Buying**

**Class Hours:** 3

**Lab/Discussion:** 0

**Credits:** 3



**Prerequisites:** FSMR 180 with a grade of C or better and MATH 217

Focuses on using basic mathematical concepts, principles, and terminology critical in understanding fundamental merchandising applications needed for profitable apparel buying.

**Rationale:** The FSMR 280 course was revised to cover the most basic mathematical concepts in merchandising applications for apparel buying. A new course, FSMR 290 - Advanced Principles in Apparel Buying, was developed to focus on advanced mathematical concepts in merchandising applications for apparel buying. FSMR 280 and FSMR 290 content cannot be incorporated into an existing course because its volume and depth prevent it from being implemented effectively without detracting from a current course's educational quality. The ACCT 201 prerequisite will be removed from FSMR 280: Introduction to Apparel Buying. Since the most basic mathematical concepts in merchandising applications used for apparel buying will be covered, it is not necessary for students to have accounting knowledge before FSMR 280: Introducing Apparel Buying.

## **ii. Current Course Description and Course Title:**

### **FSMR 357 - Global Issues in Textiles and Apparel**

**Class Hours:** 3

**Lab/Discussion:** 0

**Credits:** 3

**Prerequisites:** ECON 121

The study of the global textiles and apparel industry with an emphasis on the U.S. textile complex and the U.S. market within an international context.

## **Proposed Course Description:**

### **FSMR 357 - Global Fashion Sourcing and Trade**

**Class Hours:** 3

**Lab/Discussion:** 0

**Credits:** 3

**Prerequisites:** None

Studies the global textiles and apparel industry with an emphasis on the U.S. textile complex and the U.S. market within an international context.

**Rationale:** The title of FSMR 357 changed from Global Issues in Textiles and Apparel to Global Fashion Sourcing and Trade. The original title was not clear for the students to understand what they expected to learn from the class, so it was necessary to change it. The new title is more appealing and provides a clear understanding for the student. The ECON 121 prerequisite was removed because students do not need to know macroeconomics before taking FSMR 357.

## **iii. Current Course Description:**

### **FSMR 380 - Applications in Apparel Buying**

**Class Hours:** 3

**Lab/Discussion:** 0  
**Credits:** 3

**Prerequisites:** FSMR 280 with grade of C or better

Focuses on the development of a six-month stock and sales plan for a retail business using computer applications. Includes retail sales projections, controlling inventory, calculating the amount of merchandise to purchase, determining markup percentages, and effectively using markdowns to manage inventory.

**Proposed Course Description:**

**FSMR 380 - Applications in Apparel Buying**

**Class Hours:** 3  
**Lab/Discussion:** 0  
**Credits:** 3

**Prerequisites:** FSMR 280 (FSMR 290 recommended)

Focuses on the development of a six-month stock and sales plan for a retail business using computer applications. Includes retail sales projections, controlling inventory, calculating the amount of merchandise to purchase, determining markup percentages, and effectively using markdowns to manage inventory.

**Rationale:** Previously we required students to have a C or better grade in FSMR 280: Introduction to Apparel Buying before taking FSMR 380 - Applications in Apparel Buying. We found this delays students' graduation if they take these courses during their senior year. If they do not receive a C or better grade, students need to stay an extra year to complete their degree. We thought it is necessary to remove this prerequisite so that students can graduate on time.

**iv. Current Course Description and Course Title:**

**FSMR 434 - Quality Control in Textiles**

**Class Hours:** 1  
**Lab/Discussion:** 3  
**Credits:** 3

**Prerequisites:** FSMR 215

Physical properties explored through microscopic examination and use of textile testing equipment for fabric analysis.

**Proposed Course Description:**

**FSMR 434 - Quality Analysis**

**Class Hours:** 1  
**Lab/Discussion:** 3  
**Credits:** 3

**Prerequisites:** FSMR112 and FSMR 215

Examines and evaluates the quality of sewn products through fabric, construction, and end-use. Industry specifications and textile testing will be emphasized.

**Rationale:** We wish to combine the content of FSMR 385 - Ready to Wear Analysis and FSMR 434 - Quality Control in Textiles. We feel that because the current content for both courses fall with the overall theme of "quality analysis" as it relates to sewn fashion products, this merge is a logical action. FSMR 434 is currently our /W/ course for the program so combining FSMR 385's content into FSMR 434 also makes the most sense. FSMR 385 involves similar lab-type assignments as FSMR 434 and therefore will be an appropriate addition to the writing intensive component of FSMR 434. Furthermore, some topics currently covered of FSMR 385 are 1) duplicated in other coursework or 2) should be included in lower level FSMR courses.

**v. Current Course Description and Course Title:**

**FSMR 480 - Professional Development in the Fashion Industry**

**Class Hours:** 3

**Lab/Discussion:** 0

**Credits:** 3

**Prerequisites:** Senior Standing

Knowledge gained in major and additional required courses is applied to individual career goals. Students have the opportunity to pursue related areas not directly covered in previous course work, with emphasis on independent research, analytical thinking, and communication skills.

**Proposed Course Description and Course Title:**

**FSMR 480 - Fashion Portfolio**

**Class Hours:** 3

**Lab/Discussion:** 0

**Credits:** 3

**Prerequisites:** Senior Standing

Focuses on the ability to visually and professionally communicate and present student competencies in a variety of formats suitable for job-seeking purposes. Addresses both electronic and traditional format resume and portfolio presentations.

**Rationale:** The importance of a portfolio in the fashion merchandising and fashion design fields has increased. It is necessary to educate students on creating a fashion portfolio to provide visual evidence of artistic and technical capabilities and uniqueness and implement high standards of quality control through editing, coherence, and the highlighting of skills via conventional and computer-based techniques.

**c. Course Deletion:**

**FSMR 468 Supply Chain Management in Textiles and Apparel**

**Rationale:** This class' contents are also covered in FSMR 357 - Global Fashion Sourcing and Trade.

**d. Course Title Change**

**Current Course Title:**

**Proposed Course Title:**

**FSMR 252 - Aesthetics of Fashion**

**FSMR 252 - Fashion Design and Styling**

**Rationale:** The only change we wish to make is to change the title from "Aesthetics of Fashion" to "Fashion Design and Styling."

**e. Program Revision and Program Catalog Description Change:**

**Current Program:**

**Proposed Program:**

**Fashion Merchandising, BS**

**Fashion Studies, BS**

**Liberal Studies:** 46-48

As outlined in Liberal Studies Requirements with the following specifications:

**Mathematics:** ~~MATH 105~~ or MATH 217 (+)

**Social Science:** ECON 121, PSYC 101, ~~GEOG 104~~ or ANTH 110 or ANTH 211

**Liberal Studies Electives:** 6

COSC/IFMG 101 or IFMG 110, ECON 122, ~~no course with FSMR prefix~~

**Liberal Studies:** 46-48

As outlined in Liberal Studies Requirements with the following specifications:

**Mathematics:** MATH 217

**Social Science:** ECON 121, PSYC 101, ~~FSMR 125~~ or ANTH 110 or ANTH 211

**Liberal Studies Electives:** 6

COSC/IFMG 101 or IFMG 110, ECON 122

**Major:**

**Required Courses: 30**

FSMR 112 - Fundamentals of Clothing Construction

**Credits: 3**

FSMR 180 - Introduction to Fashion

**Credits: 3**

FSMR 215 - Textiles

**Credits: 3**

FSMR 280 - Introduction to Apparel Buying

**Credits: 3**

FSMR 357 - Global ~~Issues in Textiles~~ and Apparel

**Credits: 3**

~~FSMR 380 - Applications in Apparel Buying~~

~~**Credits: 3**~~

~~FSMR 385 - Ready-to-Wear Analysis~~

~~**Credits: 3**~~

FSMR 434 - Quality ~~Control in Textiles~~

**Credits: 3**

FSMR 456 - Historic Costume

**Credits: 3**

FSMR 480 - Professional Development in the Fashion Industry

**Credits: 3**

**Controlled Electives:** ~~Three courses from the following:~~ 9

FSMR 158, FSMR 212, FSMR 252, FSMR 258, ~~FSMR 262,~~

FSMR 281, FSMR 303, ~~FSMR 468,~~ FSMR 481, FSMR 482

~~Additional Requirements:~~

~~21-24 Required Courses:~~

~~Complete courses in one of the following options:~~

~~Option 1: Business Administration Minor (24cr) JRNL 120 or ENGL 310 and the following Business Administration minor requirements (21cr): ACCT 201, 202, FIN 310, MGMT 310, MKTG 320, and two courses from BCOM 321, BLAW 235, IFMG 300, MGMT 330 (2) (Note: Students must meet all minor requirements listed in catalog.)~~

~~Option 2: Marketing Track (21cr) or Marketing Minor (24cr) ACCT 201 and JRNL 120, BCOM 321, or ENGL 310, and the following:~~

**Major:**

**Required Courses: 30**

FSMR 112 - Fundamentals of Clothing Construction

**Credits: 3**

FSMR 180 - Introduction to Fashion

**Credits: 3**

~~FSMR 195 - Computer Aided Design for Fashion Professionals~~

~~**Credits: 3**~~

FSMR 215 - Textiles

**Credits: 3**

~~FSMR 262 - Fashion Forecasting~~

~~**Credits: 3**~~

FSMR 280 - Introduction to Apparel Buying

**Credits: 3**

FSMR 357 - Global Fashion Sourcing and Trade

**Credits: 3**

FSMR 434 - Quality Analysis

**Credits: 3**

FSMR 456 - Historic Costume

**Credits: 3**

FSMR 480 - Fashion Portfolio

**Credits: 3**

**Merchandising Specialization: 21**

FSMR 258 - Fashion Brand Merchandising

**Credits: 3**

FSMR 290 - Advanced Principles in Apparel Buying

**Credits: 3**

FSMR 359 - E-Commerce for Fashion

**Credits: 3**

FSMR 380 - Applications in Apparel Buying

**Credits: 3**

9 Credits Controlled Electives

**Design Specialization: 21**

FSMR 212 - Advanced Clothing Construction

FSMR 252 - Fashion Design and Styling

FSMR 453 - Flat Pattern Design

FSMR 455 - Draping

9 Credits Controlled Electives

Marketing Track Requirements (15cr): MKTG 320, MKTG 321, three 3cr 400-level MKTG courses  
Marketing Minor (24cr): ACCT 201 and JRNL 120, BCOM 321, or ENGL 310, and the following Marketing Minor Requirements (18cr): MKTG 320, MKTG 321, four 3cr 400-level MKTG courses

Option 3: Small Business Management Track (21cr) ACCT 201 and JRNL 120, BCOM 321, or ENGL 310, and MKTG 320, and the following Small Business Management Requirements: MGMT 275, 325 (3), two courses from MGMT 300, MGMT 310, MGMT 350, MGMT 403 (4)

Free Electives: 9-14

Total Degree Requirements: 120

(1) Student should take MATH 105 (the prerequisite for MATH 115) instead of MATH 217 for their LS requirement if they wish to pursue a double major in a business subject or take MGMT 330 for a Business Administration minor. (2) Student will need to take MATH 115, 214, and be junior standing to take MGMT 330. (3) Prerequisites to be waived. (4) Student will need to take ACCT 202 and 300 in order to take MGMT 403

### Current Catalog Description:

#### Fashion Merchandising

The Fashion Merchandising program provides course emphasis in clothing and human behavior, apparel production and analysis, textiles and quality control, apparel distribution, merchandising and promotion, global diversity, historic textiles and apparel, color and aesthetics, and apparel construction. Communications, problem solving, group project organization, professional presentation, and analytical and critical thinking skills are incorporated in course content. The Eberly College of Business and Information Technology complements this major by providing study in one of three options: business administration, marketing, and small business management. A cooperative program between IUP and the Fashion Institute of Technology in New York City allows students to study either Fashion or Accessories Design. Graduates of this program are being prepared for entry-level positions such as a manufacturer's sales representative, production assistant, ready-to-wear quality control analyst, textile testing laboratory technician, management trainee leading to position of store manager, executive/merchandising trainee leading toward position of buyer/merchandise manager, museum curator assistant, personal color consultant, fashion entrepreneur, and personalized shopping specialist for an upscale retail firm.

### Proposed Catalog Description:

#### Fashion Studies

The Fashion Studies program emphasizes the multi-faceted nature of the apparel industry from pre-design to post-consumer and beyond. Students gain a holistic view of Fashion through required coursework then choose one or more of three Fashion Studies specializations (Merchandising, Design,

#### Styling and Promotion Specialization: 21

FSMR 158 - Fashion Show Production Credits 3  
FSMR 252 - Fashion Design and Styling Credits 3  
FSMR 258 - Fashion Brand Merchandising Credits 3  
FSMR 303 - Visual Merchandising Credits 3  
9 Credits Controlled Electives

Controlled Elective Options: FSMR 158, FSMR 212, FSMR 252, FSMR 258, FSMR 281, FSMR 290, FSMR 303, FSMR 356, FSMR 359, FSMR 380, FSMR 433 FSMR 453, FSMR 454, FSMR 455, FSMR 481, FSMR 482, FSMR 493; INDS 110; ART 111, ART 113, ART 216, ART 448; THTR 122, THTR 223, THTR 321, THTR 322

Free Electives: 21-23 (1)

Total Degree Requirements: 120

(1) Students should use their Free Elective credits to expand their coursework in Fashion Studies or to earn a minor or concentration in a complementary subject area.

or Styling and Promotion) based upon their interests, skills, and career goals. Communications, problem solving, group project organization, professional presentation, and analytical and critical thinking skills are incorporated into course content.

Students pursue a minor or track concentration in a complementary subject area of interest to fulfill graduation credit requirements. This could include, but not limited to, minors in Business Administration, Marketing, Economics, Theatre, Studio Art, Communications Media, Sustainability, Small Business Management track or an additional Fashion Studies track.

Graduates of this program are prepared for such positions as an assistant buyer, assistant designer, manufacturer's sales representative, merchandise manager, custom clothier, costume technician, production assistant, ready-to-wear quality control analyst, textile testing laboratory technician, trend forecaster, store manager, stylist, visual merchandiser, museum curator assistant, personal color consultant, fashion design entrepreneur, personalized shopping specialist, manufacturing manager, internet sales entrepreneur, and social media fashion consultant.

**Rationale:** Fashion is a very broad and dynamic field. However, our current program name and curriculum offerings give the impression that our program is limited to the business side of the apparel industry. By changing our program name to Fashion Studies, creating specializations, expanding our course offerings to promote apparel design and product development, and allowing students more flexibility in minor choices, we believe we will be able to attract more students to IUP with our revised program.

**f. New Minor:**

**Fashion Studies Minor**

FSMR 180 - Introduction to Fashion **Credits: 3**

FSMR 112 - Fundamentals of Clothing Construction **Credits: 3**

or

FSMR 280 - Introduction to Apparel Buying **Credits: 3**

FSMR 215 - Textiles **Credits: 3**

FSMR 357 - Global Fashion Sourcing and Trade **Credits: 3**

FSMR 456 - Historic Costume **Credits: 3**

Two more 3 credit courses with a FSMR prefix (6 credits total)

**Total Minor Requirements: 21**

**Catalog Description:**

For Art, Theatre, and Family and Consumer Sciences Education majors or by special permission. The minor in Fashion Studies allows students in the creative and educational majors of Art, Theatre, and Family and Consumer Sciences Education to supplement their coursework with additional techniques and competencies. The minor addresses foundational fashion concepts and skills; students then choose additional Fashion Studies courses that complement major coursework and career goals to complete minor requirements.

**Rationale:** Having a minor in Fashion Studies is an option that makes sense given the current restructuring of the university. Students who are pursuing creative careers in art and theatre would benefit from the breadth of course offerings in fashion just as Fashion Studies majors would benefit

from earning minors in art and theatre. Both Art majors and Theatre majors have a substantial amount of free electives to fill as well, and a minor in Fashion Studies would be a logical option to expand knowledge and skills while opening new career path opportunities.

#### **14. Departments of Foreign Languages and Safety Sciences–New Courses and New Certificate**

##### **APSCUF Rep Council approved**

##### **a. New Courses:**

##### **i. SAFE 221 - Oral Communication in Spanish for Safety and Health**

**Class Hours:** 3

**Lab/Discussion:** 0

**Credits:** 3

**Prerequisites:** SPAN 201 or the equivalent as established by Foreign Languages departmental placement exam.

**Prerequisite or co-requisite:** SAFE 101 or SAFE 111

Focuses on the day-to-day, oral Spanish skills needed by safety professionals. Intensive work in Spanish on vocabulary and pronunciation, and on using discourse strategies in spontaneous interpersonal speaking to negotiate meaning and respond in Spanish to specific work-related health and safety situations. These situations may include supervisor-employee, worker-worker, and safety personnel-employee interactions. Required for the Certificate in Spanish for Safety Sciences. Interdisciplinary as it is co-taught by faculty in the Departments of Foreign Languages and Safety Sciences. The Safety Sciences content is delivered in English. (Also offered as SPAN 221; may not be taken for duplicate credit.)

##### **SPAN 221 - Oral Communication in Spanish for Safety and Health**

**Class Hours:** 3

**Lab/Discussion:** 0

**Credits:** 3

**Prerequisites:** SPAN 201 or the equivalent as established by Foreign Languages departmental placement exam.

**Prerequisite or co-requisite:** SAFE 101 or SAFE 111

Focuses on the day-to-day, oral Spanish skills needed by safety professionals. Intensive work in Spanish on vocabulary and pronunciation, and on using discourse strategies in spontaneous interpersonal speaking to negotiate meaning and respond in Spanish to specific work-related health and safety situations. These situations may include supervisor-employee, worker-worker, and safety personnel-employee interactions. Required for the Certificate in Spanish for Safety Sciences. Interdisciplinary as it is co-taught by faculty in the Departments of Foreign Languages and Safety Sciences. The Safety Sciences content is delivered in English. (Also offered as SAFE 221; may not be taken for duplicate credit.)

**Rationale:** This cross-listed course is designed to develop students' functional oral abilities in Spanish, which will contribute to their employability and support diversity and inclusion. Additionally, they will also be able to take advantage of the extensive information available in Spanish on governmental agencies web sites such the National Institute for Safety and Health

(NIOSH), Environmental Protection Agency (EPA), or the Occupational Safety and Health Agency (OSHA). SPAN/SAFE 221 is designed to attract students interested in Safety Sciences, Spanish, Liberal Arts, and diversity and inclusion. It could also attract undecided students at IUP and/or the PASSHE system.

**ii. SAFE 231 - Safety and Health Technical Reading and Writing in Spanish**

**Class Hours:** 3

**Lab/Discussion:** 0

**Credits:** 3

**Prerequisites:** SPAN 201 or the equivalent as established by Foreign Languages departmental placement exam.

**Prerequisite or co-requisite:** SAFE 101 or SAFE 111

Intensive practice in written expression and reading comprehension in Spanish to develop the communication skills needed by safety professionals. Focuses on comprehending and producing technical texts on safety practices, such as reports, summaries, and correspondence. Includes comprehension of non-technical texts on safety-related issues, such as newspaper and magazine articles. Required for the Certificate in Spanish for Safety Sciences. Interdisciplinary as it is co-taught by faculty in the Departments of Safety Sciences and Foreign Languages. The Safety Sciences content is delivered in English. (Also offered as SPAN 231; may not be taken for duplicate credit.)

**SPAN 231 - Safety and Health Technical Reading and Writing in Spanish**

**Class Hours:** 3

**Lab/Discussion:** 0

**Credits:** 3

**Prerequisites:** SPAN 201 or the equivalent as established by Foreign Languages departmental placement exam.

**Prerequisite or co-requisite:** SAFE 101 or SAFE 111

Intensive practice in written expression and reading comprehension in Spanish to develop the communication skills needed by safety professionals. Focuses on comprehending and producing technical texts on safety practices, such as reports, summaries, and correspondence. Includes comprehension of non-technical texts on safety-related issues, such as newspaper and magazine articles. Required for the Certificate in Spanish for Safety Sciences. Interdisciplinary as it is co-taught by faculty in the Departments of Safety Sciences and Foreign Languages. The Safety Sciences content is delivered in English. (Also offered as SAFE 231; may not be taken for duplicate credit.)

**Rationale:** This cross-listed course is designed to develop students' functional written abilities in Spanish, which will contribute to their employability and will support diversity and inclusion. Additionally, they will also be able to take advantage of the extensive information available in Spanish on governmental agencies web sites such the National Institute for Safety and Health (NIOSH), Environmental Protection Agency (EPA), or the Occupational Safety and Health Agency (OSHA). SPAN/SAFE 231 is designed in coordination between the Department of Safety Sciences and the Department of Foreign Languages to attract students interested in Safety Sciences, Spanish, Liberal Arts, diversity and inclusion. It could also attract undecided students at IUP and/or the PASSHE system.



## **b. New Certificate:**

### **Spanish for Safety Sciences Certificate**

The Certificate in Spanish for Safety Sciences is an 18-credit program aimed at those who want to better prepare themselves to work in safety, health, and environmental applied science fields alongside the growing number of Spanish-speaking individuals entering the U.S. workforce. The certificate builds oral and written Spanish skills to communicate in safety science professions.

The Certificate in Spanish for Safety Sciences offers students a variety of options for fulfilling requirements. In addition to completing the course sequence, students may earn credits towards the Certificate by taking an Advanced Placement Exam, or they may earn IUP course credits for oral proficiency levels in Spanish through the American Council on Education (ACE). (An explanation of how to obtain ACE credits is given in the *Undergraduate Catalog* in the Spanish section of the Department of Foreign Languages). Students with previous foreign language experience who do not earn credits through Advanced Placement or ACE are required to take a departmentally-approved language placement exam for possible exemption from some courses. Students in the Certificate in Spanish for Safety Sciences can only be exempted from up to 12 credits in the initial Language Sequence and must take at least 6 credits of coursework.

### **Initial Language Sequence: 12**

Courses with these numbers are offered in Spanish as part of the three-semester core language Courses

SPAN 101 - Elementary Spanish I **Credits: 4**

SPAN 102 - Elementary Spanish II **Credits: 4**

SPAN 201 - Intermediate Spanish **Credits: 4**

### **Intermediate Spanish for the Safety Sciences Sequence: 6**

SPAN/SAFE 221 - Oral Communication in Spanish for Safety and Health **Credits: 3**

SPAN/SAFE 231 - Safety and Health Technical Reading and Writing in Spanish **Credits: 3**

### **Total Certificate Requirements: 18**

In the intermediate-level courses, the safety sciences concepts will be taught in English by an instructor from the Department of Safety Sciences, and Spanish communication skills will be taught in Spanish by an instructor from the Department of Foreign Languages.

Credits taken in a study abroad context may also count toward the Certificate. Transfer credit received through study abroad experiences must be approved by the Chairperson of the Department of Foreign Languages or the Chairperson's designee or previously approved through the Transfer Credit Office.

### **Oral Proficiency Interview Exam**

Between the midterm and the completion of the final semester of coursework in the certificate, students will be required to complete the Oral Proficiency Interview (OPI) in person, or the Oral Proficiency Interview by Computer (OPIc) administered by Language Testing International (LTI). Both the OPI and OPIc issue a reliable rating on the oral proficiency level based on the ACTFL Proficiency Guidelines. Students receive official documentation of their oral proficiency rating after completing this oral assessment. The OPI or the OPIc ratings are valid for two years and can be used for employment purposes. There is a fee associated with taking the OPI or OPIc, for which students are responsible.

**Rationale:** The Certificate in Spanish for Safety Sciences is a new inter-disciplinary certificate designed to respond to a workforce that is becoming more linguistically diverse. Hispanics currently make up 16 percent of the overall U.S. labor market and will account for one out of every two new workers entering the workforce by 2025 (Coulombe and Gil 2016). Employers, unions, and government agencies need to communicate effectively with Spanish-speaking employees about their duties and rights, as well as about the safety measures they need to follow.

A 2018 survey conducted by Ipsos Public Affairs for the American Council on the Teaching of Foreign Languages (ACTFL) reported that nine out of 10 U.S. employers depend on U.S.-based employees with language skills other than English, with one-third (32 percent) reporting a high dependency. A majority of employers report that their need for foreign languages has increased over the past five years and project that it will continue to grow (ACTFL, Pearson, LTI, 2018). A certificate in Spanish for Safety Sciences will provide our graduates with the language skills required to compete in a global economy to conduct business in a domestic and international market. Safety professionals with Spanish skills can respond and negotiate meaning in specific work-related safety and health situations, in a supervisor-employee and worker-worker interactions and safety personnel-employee.

As academic institutions prepare students for this new reality, the Safety, Health and Environment curriculum must be aligned with business and industry needs. Safety professionals should add new skills to effectively respond to the diversity of all the different businesses and employees they serve. Consistent with their mission, safety professionals are obligated to protect workers' safety and health. Being able to communicate in a second language facilitates better communication with employees and improves their abilities to provide a safer work environment for all workers.

This certificate will aid IUP students in developing functional oral and writing abilities in Spanish, which will contribute to their employability. Additionally, they will also be able to take advantage of the extensive information available in Spanish on governmental agencies web sites such the National Institute for Safety and Health (NIOSH), Environmental Protection Agency (EPA), or the Occupational Safety and Health Agency (OSHA).

This certificate will include the completion of the Oral Proficiency Interview (OPI) or the Oral Proficiency Interview by Computer (OPIc). The Department of Foreign Languages has faculty who are certified testers so students have the option of completing the test with a live person. The in-person OPI can be less intimidating and potentially less expensive.

## **15. Department of Art and Design–Program Revisions** **APSCUF Rep Council approved**

### **i. Current Program:**

#### **Art Studio, BFA**

**Liberal Studies:** 43-44

As outlined in Liberal Studies section with the following specifications:

**Fine Arts:** ARHI 205

**Mathematics:** 3

**Liberal Studies Elective:** 3

ARHI 207, ~~No courses with ART Prefix~~

### **Proposed Program:**

#### **Art Studio, BFA**

**Liberal Studies:** 43-44

As outlined in Liberal Studies section with the following specifications:

**Fine Arts:** ARHI 205

**Mathematics:** 3

**Liberal Studies Elective:** 3

ARHI 207

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

ART 111 - Figure Drawing	<b>Credits: 3</b>
ART 112 - Fundamentals of Drawing	<b>Credits: 3</b>
ART 113 - Three-Dimensional Design	<b>Credits: 3</b>
ART 114 - Color and Two-Dimensional Design	<b>Credits: 3</b>

**Beginning Studio Elective: 15**

Five of the following nine courses:

ART 211 - Painting	<b>Credits: 3</b>
ART 213 - Woodworking: Function and Form	<b>Credits: 3</b>
ART 214 - Ceramics	<b>Credits: 3</b>
ART 215 - Sculpture	<b>Credits: 3</b>
ART 216 - Jewelry and Metals	<b>Credits: 3</b>
ART 217 - Print Media	<b>Credits: 3</b>
ART 218 - Introduction to Graphic Design	<b>Credits: 3</b>
ART 219 - Fibers	<b>Credits: 3</b>
ART 281 - Special Topics	<b>Credits: 1-3</b>

**Art History Required: 6**

ARHI 100 - Arts of the 20<sup>th</sup> Century  
Controlled ARHI Elective: One course from any 300-400 level ARHI prefix

**Intermediate/Advanced Studio****Required: 27**(Select one of two **tracks**.)**Art Studio Track:**

Studio areas of study include ceramics, painting, woodworking, drawing, fibers, sculpture, print media, jewelry and metals, and internship. Select from:

<del>ART 421 - Advanced Drawing</del>	<del><b>Credits: 3</b></del>
ART 451 - Advanced Woodworking: Function and Form	<b>Credits: 3</b>
ART 452 - Advanced Ceramics	<b>Credits: 3</b>
ART 453 - Advanced Sculpture	<b>Credits: 3</b>
ART 454 - Advanced Painting	<b>Credits: 3</b>
ART 457 - Advanced Print Media	<b>Credits: 3</b>
ART 459 - Advanced Fibers	<b>Credits: 3</b>
ART 460 - Advanced Jewelry and Metals	<b>Credits: 3</b>
ART 481 - Special Topics	<b>Credits: 1-3</b>
ART 493 - Internship	<b>Credits: 3-12</b>

**Graphic Design Track:**

Studio area of study includes graphic design and internship. Select from:

ART 355 - Intermediate Graphic Design and Illustration	<b>Credits: 3</b>
ART 356 - Intermediate Layout and Composition for Print and Interactive Media	<b>Credits: 3</b>
ART 455 - Modeling and Animation	<b>Credits: 3</b>
ART 456 - Advanced Web and Interactive Design	<b>Credits: 3</b>
ART 481 - Special Topics	<b>Credits: 13</b>
ART 493 - Internship	<b>Credits: 3-12</b>

**Primary Studio Emphasis: 18****Major:****Foundation Required: 12**

ART 111 - Figure Drawing	<b>Credits: 3</b>
ART 112 - Fundamentals of Drawing	<b>Credits: 3</b>
ART 113 - Three-Dimensional Design	<b>Credits: 3</b>
ART 114 - Color and Two-Dimensional Design	<b>Credits: 3</b>

**Beginning Studio Elective: 15**

Five of the following nine courses:

ART 211 - Painting	<b>Credits: 3</b>
ART 213 - Woodworking: Function and Form	<b>Credits: 3</b>
ART 214 - Ceramics	<b>Credits: 3</b>
ART 215 - Sculpture	<b>Credits: 3</b>
ART 216 - Jewelry and Metals	<b>Credits: 3</b>
ART 217 - Print Media	<b>Credits: 3</b>
ART 218 - Introduction to Graphic Design	<b>Credits: 3</b>
ART 219 - Fibers	<b>Credits: 3</b>
ART 281 - Special Topics	<b>Credits: 1-3</b>

**Art History Required: 6**

ARHI 100 - Arts of the 20<sup>th</sup> Century  
Controlled ARHI Elective: One course from any 300-400 level ARHI prefix

**Intermediate/Advanced Studio****Required: 27**(Select one of two **concentrations**.)**Art Studio Concentration:**

Studio areas of study include ceramics, painting, woodworking, drawing, fibers, sculpture, print media, jewelry and metals, and internship. Select from:

ART 423 - Drawing: Ideation and Concept	<b>Credits: 3</b>
ART 424 - Drawing: Materials and Process	<b>Credits: 3</b>
ART 451 - Advanced Woodworking: Function and Form	<b>Credits: 3</b>
ART 452 - Advanced Ceramics	<b>Credits: 3</b>
ART 453 - Advanced Sculpture	<b>Credits: 3</b>
ART 454 - Advanced Painting	<b>Credits: 3</b>
ART 457 - Advanced Print Media	<b>Credits: 3</b>
ART 459 - Advanced Fibers	<b>Credits: 3</b>
ART 460 - Advanced Jewelry and Metals	<b>Credits: 3</b>
ART 481 - Special Topics	<b>Credits: 1-3</b>
ART 493 - Internship	<b>Credits: 3-12</b>

**Graphic Design Concentration:**

Studio area of study includes graphic design and internship. Select from:

ART 355 - Intermediate Graphic Design and Illustration	<b>Credits: 3</b>
ART 356 - Intermediate Layout and Composition for Print and Interactive Media	<b>Credits: 3</b>
ART 455 - Modeling and Animation	<b>Credits: 3</b>
ART 456 - Advanced Web and Interactive Design	<b>Credits: 3</b>
ART 481 - Special Topics	<b>Credits: 13</b>
ART 493 - Internship	<b>Credits: 3-12</b>

**Primary Studio Emphasis: 18**

Select any 300-400 level courses from one studio area listed in the track options above. (2,3)

**Synthesis Studio: 9**

Art Studio Track majors select 300-400 level courses listed within track options above that are outside students' primary studio area. These studio courses must relate to one's primary studio area emphasis conceptually and/or technically. Graphic Design Track majors may select 300-400 level graphic design courses or 300-400 level courses from the Art Studio Track if they relate conceptually and/or technically. (2, 3, 4)

**Intermediate/Advanced Studio Electives: 9**

Select any 300-400 level art studio courses. (1, 2)

**Senior Thesis and Professional Practicum: 3**

ART 400 - Professional Practices

**Free Electives: 4-5**

**Total Degree Requirements: 120**

(1) Student must achieve a cumulative 2.5 GPA and earn a "C" or better in all ART and ARHI courses to graduate.

(2) Students must complete 3cr within an advanced studio before permission will be granted to enroll in the 6cr component of the advanced level. Permission of the instructor is a prerequisite to all 6cr advanced courses.

(3) Inclusion of internship credits 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 before enrollment.

(4) Synthesis studio courses must be approved by academic advisor.

Select any 300-400 level courses from one studio area listed in the track options above. (2,3)

**Synthesis Studio: 9**

Art Studio Track majors select 300-400 level courses listed within track options above that are outside students' primary studio area. These studio courses must relate to one's primary studio area emphasis conceptually and/or technically. Graphic Design Track majors may select 300-400 level graphic design courses or 300-400 level courses from the Art Studio Track if they relate conceptually and/or technically. (2, 3, 4)

**Intermediate/Advanced Studio Electives: 9**

Select any 300-400 level art studio courses. (1, 2)

**Senior Thesis and Professional Practicum: 3**

ART 400 - Professional Practices

**Free Electives: 4-5**

**Total Degree Requirements: 120**

(1) Student must achieve a cumulative 2.5 GPA and earn a "C" or better in all ART and ARHI courses to graduate.

(2) Students must complete 3cr within an advanced studio before permission will be granted to enroll in the 6cr component of the advanced level. Permission of the instructor is a prerequisite to all 6cr advanced courses.

(3) Inclusion of internship credits 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 before enrollment.

(4) Synthesis studio courses must be approved by academic advisor.

**Rationale:** Two new advanced level drawing courses, ART 423 - Drawing - Materials and Process and ART 424 - Drawing: Ideation and Concept are being added to the B.F.A. Art Studio. Both new courses have already been approved and added to the catalog. These courses will replace ART 421 - Advanced Drawing, which will be removed from the list of approved studio courses in the Program Requirements.

**ii. Current Program:**

**Studio Track, Art, BA**

**Liberal Studies: 43-44**

As outlined in Liberal Studies section with the following specifications:

**Fine Arts:** ARHI 205

**Mathematics:** 3

**Liberal Studies Elective:** 3

ARHI 207

~~No courses with ART Prefix~~

**Major:**

**Proposed Program:**

**Studio Track, Art, BA**

**Liberal Studies: 43-44**

As outlined in Liberal Studies section with the following specifications:

**Fine Arts:** ARHI 205

**Mathematics:** 3

**Liberal Studies Elective:** 3

ARHI 207

**Major:**

**Foundation Required: 12**

**Foundation Required: 12**

ART 111 - Figure Drawing **Credits: 3**  
 ART 112 - Fundamentals of Drawing **Credits: 3**  
 ART 113 - Three-Dimensional Design **Credits: 3**  
 ART 114 - Color and Two-Dimensional Design **Credits: 3**

**Beginning Studio Elective: 12**

Four of the following nine courses:  
 ART 211 - Painting **Credits: 3**  
 ART 213 - Woodworking: Function and Form **Credits: 3**  
 ART 214 - Ceramics **Credits: 3**  
 ART 215 - Sculpture **Credits: 3**  
 ART 216 - Jewelry and Metals **Credits: 3**  
 ART 217 - Print Media **Credits: 3**  
 ART 218 - Introduction to Graphic Design **Credits: 3**  
 ART 219 - Fibers **Credits: 3**  
 ART 281 - Special Topics **Credits: 1-3**

**Art History Required: 6**

ARHI 100 - Arts of the 20<sup>th</sup> Century **Credits: 3**  
 Controlled ARHI Elective: One course from any 300-400 level ARHI prefix

**Intermediate/Advanced Studio Required: 12**

Select 300-400 level courses from four different studio areas (1, 2)  
 ART 355 - Intermediate Graphic Design and Illustration **Credits: 3**  
 ART 356 - Intermediate Layout and Composition for Print and Interactive Media **Credits: 3**  
~~ART 421 - Advanced Drawing **Credits: 3**~~  
 ART 451 - Advanced Woodworking: Function and Form **Credits: 3**  
 ART 452 - Advanced Ceramics **Credits: 3**  
 ART 453 - Advanced Sculpture **Credits: 3**  
 ART 454 - Advanced Painting **Credits: 3**  
 ART 457 - Advanced Print Media **Credits: 3**  
 ART 459 - Advanced Fibers **Credits: 3**  
 ART 460 - Advanced Jewelry and Metals **Credits: 3**  
 ART 481 - Special Topics **Credits: 1-3**  
 ART 493 - Internship **Credits: 3-12**

**Free Electives: 34-35****Total Degree Requirements: 120**

See advisory paragraph "Timely Completion of Degree Requirements" in the section on Requirements for Graduation.

(1) Students must complete 3cr within an advanced studio before permission will be granted to enroll in the 6cr component of the advanced level. Permission of the instructor is a prerequisite to all 6cr advanced courses.

ART 111 - Figure Drawing **Credits: 3**  
 ART 112 - Fundamentals of Drawing **Credits: 3**  
 ART 113 - Three-Dimensional Design **Credits: 3**  
 ART 114 - Color and Two-Dimensional Design **Credits: 3**

**Beginning Studio Elective: 12**

Four of the following nine courses:  
 ART 211 - Painting **Credits: 3**  
 ART 213 - Woodworking: Function and Form **Credits: 3**  
 ART 214 - Ceramics **Credits: 3**  
 ART 215 - Sculpture **Credits: 3**  
 ART 216 - Jewelry and Metals **Credits: 3**  
 ART 217 - Print Media **Credits: 3**  
 ART 218 - Introduction to Graphic Design **Credits: 3**  
 ART 219 - Fibers **Credits: 3**  
 ART 281 - Special Topics **Credits: 1-3**

**Art History Required: 6**

ARHI 100 - Arts of the 20<sup>th</sup> Century **Credits: 3**  
 Controlled ARHI Elective: One course from any 300-400 level ARHI prefix

**Intermediate/Advanced Studio Required: 12**

Select 300-400 level courses from four different studio areas (1,2)  
 ART 355 - Intermediate Graphic Design and Illustration **Credits: 3**  
 ART 356 - Intermediate Layout and Composition for Print and Interactive Media **Credits: 3**  
~~ART 423 - Drawing: Materials and Process **Credits: 3**~~  
~~ART 424 - Drawing: Ideation and Concept **Credits: 3**~~  
 ART 451 - Advanced Woodworking: Function and Form **Credits: 3**  
 ART 452 - Advanced Ceramics **Credits: 3**  
 ART 453 - Advanced Sculpture **Credits: 3**  
 ART 454 - Advanced Painting **Credits: 3**  
 ART 457 - Advanced Print Media **Credits: 3**  
 ART 459 - Advanced Fibers **Credits: 3**  
 ART 460 - Advanced Jewelry and Metals **Credits: 3**  
 ART 481 - Special Topics **Credits: 1-3**  
 ART 493 - Internship **Credits: 3-12**

**Free Electives: 34-35****Total Degree Requirements: 120**

See advisory paragraph "Timely Completion of Degree Requirements" in the section on Requirements for Graduation.

(1) Students must complete 3cr within an advanced studio before permission will be granted to enroll in the 6cr component of the advanced level. Permission of the instructor is a prerequisite to all 6cr advanced courses.

(2) Inclusion of internship credits 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 before enrollment.

(2) Inclusion of internship credits 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 before enrollment.

**Rationale:** Two new advanced level drawing courses, ART 423 Drawing: Materials and Process and ART 424 Drawing: Ideation and Concept are being added to the B.A. Art / Studio Track. Both new courses have already been approved and added to the catalog. These courses will replace ART 421 Advanced Drawing, which will be removed from the list of approved studio courses in the Program Requirements.

## **16. Department of Food and Nutrition—Modification of Prerequisites, Program Revision, and Program Catalog Description Change**

**APSCUF Rep Council approved**

### **a. Modification of Prerequisites**

#### **Current Course Title, Credits and Prerequisites:**

**FDNT 212 - Nutrition**

**Class Hours:** 3

**Credits:** 0

**Lab/Discussion:** 3

**Prerequisites:** CHEM102 or CHEM112 or BIOL 104 and BIOL 106; sophomore standing  
Examines sources and functions of nutrients, the interdependence of dietary essentials, and nutritive value of an optimum diet are studied. Discusses dietary risk factors to chronic diseases and varied conditions in human life. Includes emerging and alternative food and nutrition topics.

#### **Proposed Course Title, Credits and Prerequisites:**

**FDNT 212 - Nutrition**

**Class Hours:** 3

**Credits:** 0

**Lab/Discussion:** 3

**Prerequisites:** CHEM 102 or CHEM 103 or CHEM 112 or BIOL 104 and BIOL 106; sophomore standing  
Examines sources and functions of nutrients, the interdependence of dietary essentials, and nutritive value of an optimum diet are studied. Discusses dietary risk factors to chronic diseases and varied conditions in human life. Includes emerging and alternative food and nutrition topics.

**Rationale:** CHEM 103 is a new course added by Chemistry and is an acceptable prerequisite for FDNT 212 Nutrition.

### **b. Program Revision:**

**Current Program:**

**Proposed Program:**

## Nutrition Minor

### Required Courses:

FDNT 212 - Nutrition

Credits: 3

FDNT 213 - Life Cycle Nutrition

Credits: 3

**Controlled Electives:** Select 4 additional courses from the following list. Other FDNT courses may be selected but must be pre-approved by the Department Chair. Must meet any course prerequisites.

Credits: 12-13

FDNT 150 - Foods Lecture

Credits: 3

FDNT 245 - Sports Nutrition

Credits: 3

~~FDNT 355 - Medical Nutrition Therapy I~~

~~Credits: 3~~

FDNT 402 - Community Nutrition

Credits: 3

FDNT 410 - Food, Nutrition and Aging

Credits: 3

~~FDNT 458 - Advanced Human Nutrition~~

~~Credits: 4~~

FDNT 470 - Human Food Consumption Patterns

Credits: 3

**Total Minor Requirements: 18-19**

## Nutrition Minor

### Required Courses:

FDNT 145 - Personal Nutrition

Credits: 3

or

FDNT 212 - Nutrition

Credits: 3

FDNT 213 - Life Cycle Nutrition

Credits: 3

**Controlled Electives:** Select 4 additional courses from the following list. Other FDNT courses may be selected but must be pre-approved by the Department Chair. Must meet any course prerequisites.

Credits: 12

FDNT 150 - Foods Lecture

Credits: 3

FDNT 245 - Sports Nutrition

Credits: 3

FDNT 255 - Nutrition Assessment and Medical Terminology

Credits: 3

FDNT 402 - Community Nutrition

Credits: 3

FDNT 410 - Food, Nutrition and Aging

Credits: 3

FDNT 415 - Sustainable Nutrition

Credits: 3

FDNT 422 - Public Health Nutrition and Epidemiology

Credits: 3

FDNT 445 - Advanced Sports Nutrition

Credits: 3

FDNT 459 - Advanced Human Metabolism: Macronutrients

Credits: 3

FDNT 460 - Advanced Human Metabolism: Micronutrients

Credits: 3

FDNT 470 - Human Food Consumption Patterns

Credits: 3

FDNT 471 - Integrative Nutrition in Complementary and Alternative Healthcare

Credits: 3

**Total Minor Requirements: 18**

## c. Program Catalog Description Change:

### Current Catalog Description:

This minor is recommended for students majoring in related disciplines, such as nursing and allied health, pre-medical, pre-pharmacy, hospitality management, kinesiology, health, and sport science, child development and family relations, and family and consumer sciences education, and for students who have a personal, consumer-oriented interest in nutrition. Science prerequisites for the minor are, at a minimum, [CHEM 101/CHEM 102](#) or [BIOL 104/BIOL 106](#).

### Proposed Catalog Description:

The Nutrition Minor is recommended for students majoring in related disciplines such as Athletic Training, Biology, Chemistry, Child Development, Exercise Science, Family Consumer Science Education, Health and Physical Education, Hospitality Management, Human Development and Family Science, Nursing and Allied Health, Pre-Medicine, Pre-Pharmacy, and Speech-Language Pathology.

**Rationale:** The Nutrition Minor is being revised to: 1) update and expand the listing of controlled electives, 2) update the science prerequisites from required to recommended, 3) update designation of



FDNT 145 as a permissible course regardless of whether it is required for the student's major, 4) delete FDNT 355 as a controlled elective because this course is beyond the scope of practice of non-majors, 5) delete FDNT 458 as a controlled elective because this course is no longer offered, 6) change minor requirement from 18-19 credits to 18 credits (deleting FDNT 458 which was a 4 credit course) moves the minor to 18 credits, 7) revise the program description to reflect major title changes in other programs whose students may be interested in pursuing a minor in nutrition, and 8) add student learning outcomes to meet university expectations and assessment requirements.

## **17. Department of Physics–Credit Hour Change**

### **APSCUF Rep Council approved**

#### **Current Catalog Description:**

##### **SCI 101 – Fundamentals of Physics**

**Class Hours:** 2

**Lab/Discussion:** 2

**Credits:** 2.5

**Prerequisites:** Early Childhood Education or Early Childhood Education or Early childhood education/special education major or instructor permission

A conceptual course in physics for the non-science major. High school physics is not a prerequisite. Class and lab presentations concentrate upon dispelling naive concepts and developing a better understanding and appreciation of the physical world. The topics of motion, heat, light, sound, electricity, magnetism, and the atom are presented in context with our everyday experiences. Does not fulfill the Liberal Studies requirement except for majors in early childhood education or special education or early childhood education/special education major.

#### **Proposed Catalog Description:**

##### **SCI 101 – Fundamentals of Physics**

**Class Hours:** 2

**Lab/Discussion:** 2

**Credits:** 3

**Prerequisites:** Early Childhood Education or Special Education or Early Childhood Education/Special Education major or instructor permission

A conceptual course in physics for the non-science major. High school physics is not a prerequisite. Class and lab presentations concentrate upon dispelling naive concepts and developing a better understanding and appreciation of the physical world. The topics of motion, heat, light, sound, electricity, magnetism, and the atom are presented in context with our everyday experiences. Does not fulfill the Liberal Studies requirement except for majors in early childhood education or special education or early childhood education/special education major.

**Rationale:** The elementary education programs (ECED and ECSP) requested that we convert our 2.5 credit SCI courses for elementary education students into 3 or 4 credit courses that meet the LS lab or non-lab science requirements. Physics has opted for the 3cr version. The 2.5cr is a historical anomaly to help education degrees meet their credit caps. Now that the number of science requirements is reduced, the half credit become problematic. Physics will now offer SCI 101 for the correct 3cr. No revisions to course content are required.



**18. Center for Career and Technical Personnel Preparation–New Courses, Program Revision, Catalog Description Change, and Credit Hour Change**

**APSCUF Rep Council approved**

**a. New Courses**

**i. VOED 406 - Planning, Development, and Evaluation of a Cooperative Education Program**

**Class Hours:** 3

**Lab/Discussion:** 0

**Credits:** 3

**Prerequisites:** None

Explores the fundamental principles of establishing and operating a Cooperative Education program in secondary schools in accordance with the PDE Bureau of Career and Technical Education Approved Program Evaluation Checklist. Emphasizes criteria and guidelines required to establish program policies and coordinating activities between the school and workplace site.

**Rationale:** This course is being proposed as part of the revised 9-13 credit certification program for career and technical individuals seeking PDE certification as a Cooperative Education Coordinator. To qualify for grant funding from the Pennsylvania Department of Education (the Center for Career and Technical Personnel Preparation is grant funded by PDE), an approved institute of higher education must have the ability to recommend an individual for career and technical cooperative education certification. Courses must meet Cooperative Education framework guidelines.

**ii. VOED 407 - Legal Considerations for Cooperative Education Programs**

**Class Hours:** 2

**Lab/Discussion:** 0

**Credits:** 2

**Prerequisites:** None

Provides an immersive exploration of state and federal labor laws, administration, and program operations. Adheres to program regulatory compliance as the basis for research, reflection, and inquiry.

**Rationale:** This course is being proposed as part of the revised 9-13 credit certification program for career and technical individuals seeking PDE certification as a Cooperative Education Coordinator. To qualify for grant funding from the Pennsylvania Department of Education (the Center for Career and Technical Personnel Preparation is grant funded by PDE), an approved institute of higher education must have the ability to recommend an individual for career and technical cooperative education certification. Courses must meet Cooperative Education framework guidelines.

**iii. VOED 408 - Planning School-Based Instruction for Cooperative Education**

**Class Hours:** 2

**Lab/Discussion:** 0

**Credits:** 2

**Prerequisites:** None

Explores the role of the Cooperative Education Coordinator as teacher, career advisor, and education professional. Emphasizes classroom instruction that focuses on the development of 21st century skills including critical thinking, problem-solving, and communication. Explores the role of on-going professional development for both the student and teacher.

**Rationale:** This course is being proposed as part of the revised 9-13 credit certification program for career and technical individuals seeking PDE certification as a Cooperative Education Coordinator. To qualify for grant funding from the Pennsylvania Department of Education (the Center for Career and Technical Personnel Preparation is grant funded by PDE), an approved institute of higher education must have the ability to recommend an individual for career and technical cooperative education certification. Courses must meet Cooperative Education framework guidelines.

**iv. VOED 409 - Practicum/Field Experience**

**Class Hours:** 2

**Lab/Discussion:** 0

**Credits:** 2

**Prerequisites:** VOED 406, VOED 407, and VOED 408

Provides opportunities to apply the fundamentals and concepts learned in the prerequisite courses. Requires 25 hours of practicum/field experience at a school, working closely with an approved, certified cooperative education coordinator and attend all scheduled seminar meetings.

**Rationale:** This course is being proposed as part of the revised 9-13 credit certification program for career and technical individuals seeking PDE certification as a Cooperative Education Coordinator. To qualify for grant funding from the Pennsylvania Department of Education (the Center for Career and Technical Personnel Preparation is grant funded by PDE), an approved institute of higher education must have the ability to recommend an individual for career and technical cooperative education certification. Courses must meet Cooperative Education framework guidelines.

**v. VOED 410 - Foundations of Career and Technical Education**

**Class Hours:** 1

**Lab/Discussion:** 0

**Credits:** 1

**Prerequisites:** None

Emphasizes key historical background, current trends, and pathways to Career and Technical certification for the candidate with a non-Career and Technical Instructional certificate. Taken in the first semester of enrollment, required for Instructional I or II certificate holders only who are seeking to add the Cooperative Education certification to their current certificate.

**Rationale:** This course is being proposed as part of the revised 9-13 credit certification program for career and technical individuals seeking PDE certification as a Cooperative Education Coordinator. To qualify for grant funding from the Pennsylvania Department of Education (the Center for Career and Technical Personnel Preparation is grant funded by PDE), an approved institute of higher education must have the ability to recommend an individual for career and technical cooperative education certification. Courses must meet Cooperative Education framework guidelines.

**a. Program Revision:**

**Current Program:**

**Secondary School Cooperative Education  
Teacher/Coordinator Certification (+)**

~~VOED 402 - Special Topics in Vocational  
Pedagogical Preparation - Credits: 1-15~~

~~Total Certification Requirements: 15~~

~~(+) Student may be exempt from some credit requirements  
based on proof of previous coursework.~~

**Proposed Program:**

**Secondary School Cooperative Education  
Teacher/Coordinator Certification**

Candidates who hold a valid PA Career and Technical  
Instructional I or II (9-12 credits) are required to complete all  
courses listed below:

VOED 406 - Planning, Development, and  
Evaluation of a Cooperative  
Education Program **Credits: 3**

VOED 407 - Legal Considerations for  
Cooperative Education Programs **Credits: 2**

VOED 408 - Planning School-Based  
Instruction for Cooperative  
Education **Credits: 2**

VOED 409 - Practicum/Field Experience **Credits: 2**

**Recommended:**

EDEX 458 - Serving Students with Special Needs **Credits: 3**  
Program requirement includes a course in accommodating  
students with special needs. Determination of course  
substitution will be made upon transcript review by program  
advisor.

Candidates who hold a valid Instructional I or II (10-13 credits)  
are required to complete all courses listed below:

VOED 406 - Planning, Development, and  
Evaluation of a Cooperative  
Education Program **Credits: 3**

VOED 407 - Legal Considerations for  
Cooperative Education Programs **Credits: 2**

VOED 408 - Planning School-Based  
Instruction for Cooperative  
Education **Credits: 2**

VOED 409 - Practicum/Field Experience **Credits: 2**

VOED 410 - Foundations of Career and  
Technical Education **Credits: 1**

**Recommended:**

EDEX 458 - Serving Students with Special Needs **Credits: 3**  
Program requirement includes a course in accommodating  
students with special needs. Determination of course  
substitution will be made upon transcript review by program  
advisor.

**Total Certification Requirements: 9-13**

**Current Catalog Description:** Existing Pennsylvania teaching certificate (Vocational Instructional I or II certificate or Instructional I or II certificate)

**Proposed Catalog Description:** Existing Pennsylvania teaching certificate (Career and Technical Instructional I or II certificate or Instructional I or II certificate)

**Rationale:** Individuals seeking to serve as a cooperative education teacher-coordinator in the Commonwealth's secondary schools must complete a valid certification program. Currently, there are only three institutions with a Secondary School Cooperative Education Teacher/Coordinator certification program - IUP being one - and Temple and Penn State being the other two.

Certification to serve as a cooperative education teacher-coordinator in the Commonwealth's secondary schools can be earned by completing a program of study that addresses the PA Department of Education Program Standards and is designed to prepare individuals for managing school-to-work cooperative training and transitional experiences.

Revision to the Certification - Secondary School Cooperative Education Teacher/Coordinator program is being proposed in order to update the current model which is based upon having one, repeatable identifier (VOED 402 SP Topic Voc Pedagogical Prep Vocational Education) for the module-based coursework required to earn the current 15 credit requirement. Having one repeatable course title and number causes confusion with students registering for courses, Career and Technical Center staff, and faculty. In addition, it makes student advising difficult because the faculty advisor has to keep a comprehensive list of modules completed to assure that the student was in the correct course sequence and meeting all program requirements. In addition, by replacing the repeatable course (VOED 402) with individually titled courses, students' transcripts will more accurately reflect required content which has been completed.

For example, in the past, competencies were based on the completion of the minimum 6 credits to a maximum 15 credits, determined by the students occupational experiences. Currently, the course listed for registration and the course information remain the same, as you will see in the uploaded file(s). When a student registers, the Center advisor must complete the process by identifying what modules the student has completed and which is next in the individual's sequence. This requires the faculty advisor to keep comprehensive record keeping to assure the student is in the correct course sequence.

The proposed design will be advantageous for both students, staff, and faculty of the CCTPP. Having individual course titles and numbers will: 1) Enable better evaluation of competency achievement, 2) Improve efficiency with work protocols and procedures, 3) Lessen confusion for students, staff, and faculty, 4) Allow students, staff, and faculty to easily identify and track where one is in the program sequence, 5) Advise efficiently and effectively, and 6) Improve record keeping and overall communication.

## **19. Department of Sociology–Program Moratoriums**

### **APSCUF Rep Council approved**

#### **i. Sociology of Disability Services Minor**

#### **ii. Sociology Track, Social Science Education, BSED**

**Rationale:** Based on INSPIRE recommendations this minor and track are being placed in moratorium for two or more years with eventual closure.

## **20. Department of Professional Studies in Education–Course Revisions, Credit Hour Changes, Catalog Description Change, Course Title Change, Prefix Changes, and Modification of Prerequisites**

### **APSCUF Rep Council approved**

#### **a. Course Revision, Credit Hour Changes, and Catalog Description Change:**

##### **Current Catalog Description:**

## **ECED 425 Methods of Teaching and Assessing Language Arts: Pre-K to Grade 4 Learners**

**Class Hours:** 2.5

**Lab/Discussion:** 0

**Credits:** 2.5

**Prerequisite:** ECED 351

Emphasizes the art of communication as an interrelated process. The task of the early childhood teacher is to develop and integrate the language arts throughout the curriculum. Techniques for teaching and assessing developmentally-appropriate oral and written communication, spelling, handwriting, and vocabulary are presented. Special emphasis is given to developmental writing approaches.

### **Proposed Catalog Description:**

## **ECED 425 Methods of Teaching and Assessing Language Arts: Pre-K to Grade 4 Learners**

**Class Hours:** 3

**Lab/Discussion:** 0

**Credits:** 3

**Prerequisite:** ECED 351

Emphasizes the art of communication as an interrelated process. Develops and integrates language arts throughout the curriculum. Explores methods for teaching and assessing developmentally-appropriate oral and written communication, spelling, handwriting, and vocabulary. Gives special emphasis to developmental writing approaches.

**Rationale:** As part of the ECSP and ECED Program revisions, science course requirement credit hours are changing from 2.5 credits per course to 3 and 4 credits per course. Therefore, 0.5 credits were needed to reach the 120 credits necessary for degree completion. Program faculty determined that a deeper focus on the current learning outcomes within the ECED 425 course would be beneficial to early childhood teacher candidates.

### **b. Course Revision:**

#### **i. Current Course Description:**

### **FDED 440 – Orientation to Teaching in Urban Centers**

**Class Hours:** 2

**Lab/Discussion:** 0

**Credits:** 2

**Prerequisites:** None

Provides an understanding of urban learners and their unique learning needs and conditions. Emphasizes understanding the origin of attitudes and values and how these affect the relationships that exist between students and teachers. Special attention given to practical application of theoretical information to problems of urban education.

**Proposed Course Description:**

**FDED 440 – Orientation to Teaching in Urban Centers**

**Class Hours:** 2

**Lab/Discussion:** 0

**Credits:** 2

**Prerequisites:** None

Provides an understanding of urban learners and their unique learning needs and conditions. Emphasizes understanding the origin of attitudes and values and how these affect the relationships that exist between students and teachers. Special attention given to practical application of theoretical information to problems of urban education.

**Rationale:** This course is being revised to have measurable objectives that are in alignment with current Pennsylvania Department of Education guidelines and professional standards.

**ii. Current Catalog Description:**

**ECED 117 – Family, Community and School Relationships in a Diverse Society**

**Class Hours:** 2

**Lab/Discussion:** 0

**Credits:** 2

**Prerequisites:** None

Develops a strong understanding and deep appreciation of the diversity among families, communities, and school cultures in the United States. Students will gain the ability to locate and develop curricular materials and teaching strategies appropriate to this country's diversity.

**Proposed Course Description:**

**ECED 117 – Family, Community and School Relationships in a Diverse Society**

**Class Hours:** 3

**Lab/Discussion:** 0

**Credits:** 3

**Prerequisites:** None

Develop a strong understanding and deep appreciation of the diversity among families, communities, and school cultures in the United States. Locate and develop curricular materials and teaching strategies appropriate to this country's diversity. Recognize families and communities as competent and resourceful systems. Critically examine ways to collaborate with family members and community agencies to support students with and without disabilities. Focus on legal and philosophical bases for supporting families in making important decisions affecting their children.

**Rationale:** The content in three courses was similar and it has been determined that adding some of the content from ECED 499 and EDEX 460 into the ECED 117, and raising it to three-credits, would eliminate offering three courses with similar content and outcomes.

**iii. Current Catalog Description:**

**ECED 280 – Maximizing Learning: Engaging all PreK to Grade 4 Learners**

**Class Hours:** 3

**Lab/Discussion:** 0

**Credits:** 3

**Prerequisites:** Early childhood education/special education majors or early childhood education majors only.

In this course, we will examine competencies specific to the science of teaching, the organization and management of functional learning environments, and the design, implementation, and evaluation of developmentally appropriate learning experiences. Areas explored include models of teaching, lesson and unit planning, and creating a classroom environment that is conducive to learning.

**Proposed Course Description:**

**ECED 280 – Maximizing Learning: Engaging all Learners**

**Class Hours:** 3

**Lab/Discussion:** 0

**Credits:** 3

**Prerequisites:** Teacher Education Major

Examine competencies specific to the science of teaching, the organization and management of functional learning environments, and the design, implementation, and evaluation of developmentally appropriate learning experiences. Explore models of teaching, lesson and unit planning, technology integration, and creating a P-4, 4-8, P12, and/or 7-12 classroom environment that is conducive to learning.

**Rationale:** This course is offered to Early Childhood and Early Childhood with Special Education (ECSP) majors. The Pennsylvania Department of Education (PDE) changed the grade spans for special education from P-8 to P-12; thus, a program revision and course revisions for the ECSP program were warranted. This course now includes competencies for all PDE certification grade spans.

**iv. Current Catalog Description:**

**ECED 351 - Literacy for the Emergent Reader: PreK to Grade 1 Learners**

**Class Hours:** 3

**Lab/Discussion:** 0

**Credits:** 3

**Prerequisites:** Early Childhood Education/Special Education Major or Early Childhood Education Major, Admission to Teacher Education Step One.

Provides early childhood teachers with various strategies, techniques, and materials related to developing early literacy in children. Current research and practical applications are interwoven to ensure a systematic coverage of the most recent methods and best practices. Focuses on the development of speaking, listening, reading, and writing skills for PreK to Grade 1 learners.

**Proposed Course Description:**

**ECED 351 - Literacy for the Emergent Reader: PreK to Grade 1 Learners**

**Class Hours:** 3

**Lab/Discussion:** 0

**Credits:** 3

**Prerequisites:** Early Childhood Education/Special Education Major or Early Childhood Education Major Provides early childhood teachers with various strategies, techniques, and materials related to developing early literacy in children. Current research and practical applications are interwoven to ensure a systematic coverage of the most recent methods and best practices. Focuses on the development of speaking, listening, reading, and writing skills for PreK to Grade 1 learners.

**Rationale:** The sequence of classes is changing because the programs are being revised and the Teacher Education attribute is no longer needed.

**c. Prefix Changes:**

**Current Prefixes:**

**Proposed Prefixes:**

**ACE 103 Digital Instructional Technology**

**ETIT 103 Digital Instructional Technology**

**IDT 330 Technology in the Classroom**

**ETIT 330 Technology in the Classroom**

**Rationale:** PASSHE recently approved IUP’s request to update and rename the former Adult and Community Education program to Education, Training, and Instructional Technology. As a result, the subject Prefix ACE no longer has any accompanying department or major codes in the university. We are requesting a batch prefix (subject code) change of all active ACE courses to a new prefix of ETIT to show their disciplinary alignment with our current programs in education, training, and instructional technology. Since this is being requested as a batch change to be carried out by the Registrar, no updates will need to be done by the various educational programs that currently include ACE 103 or IDT 330 in their curricula.

**d. Program Revision:**

**Current Program:**

**Proposed Program:**

**Early Childhood, BSED/Literacy, MED**

**Early Childhood, BSED/Literacy, MED**

**Liberal Studies: 43-5**

As outlined in the Liberal Studies Requirements with the following specifications:

**Humanities:**

[HIST 196 - Explorations in US History](#)

**Credits: 3**

**Mathematics:**

MATH 151 - Elements of Mathematics I

**Credits: 3**

**Natural Science:**

~~3 of 4 required~~

[SCI 101 - Fundamentals of Physics](#)

**Credits: 2-5**

[SCI 102 - Fundamentals of Chemistry](#)

**Credits: 2-5**

~~SCI 103 - Fundamentals of Earth and Space Science~~

**Credits: 2-5**

**Liberal Studies: 44-46**

As outlined in the Liberal Studies Requirements with the following specifications:

**Humanities:**

[HIST 196 - Explorations in US History](#)

**Credits: 3**

**Mathematics:**

MATH 151 - Elements of Mathematics I

**Credits: 3**

**Natural Science:**

[SCI 104 - Fundamentals of Environmental Biology](#)

**Credits: 4**

~~One of two required:~~

[SCI 101 - Fundamentals of Physics](#)

**Credits: 3**

[SCI 102 - Fundamentals of Chemistry](#)

**Credits: 3**



[SCI 104 - Fundamentals of Environmental Biology](#)

**Social Science:**

~~[GEOG 101 - Environment and Society](#)~~

or

~~[GEOG 102 - Geography of the United States and Canada](#)~~

or

[GEOG 104 - World Geography: Global Context](#)

[PSYC 101 - General Psychology](#)

**Liberal Studies Electives:** 3

[MATH 152 - Elements of Mathematics II](#)

**College:** ~~21~~-24

**Preprofessional Education Sequence:**

~~[ACE 103 - Digital Instructional Technology](#)~~

[EDSP 102 - Educational Psychology](#)

**Professional Education Sequence:**

[EDSP 477 - Assessment of Student Learning: Design and Interpretation of Educational Measures](#)

[EDUC 242 - Pre-student Teaching Clinical Experience I](#)

[EDUC 342 - Pre-student Teaching Clinical Experience II](#)

[EDUC 441 - Student Teaching](#) Credits: ~~5~~-12

[EDUC 442 - School Law](#) Credits: 1

**Major:** ~~52~~-5

**Required Courses:** (2, 3)

[CDFR 310 - Child Observation and Assessment](#)

[ECED 112 - Childhood Development Birth-Age 5](#)

[ECED 200 - Introduction to Early Childhood Education](#)

[ECED 215 - The Developing Child: K-4th Grade](#)

[ECED 250 - Language Development](#)

[ECED 280 - Maximizing Learning: Engaging All ~~PreK to Grade 4~~ Learners](#)

[ECED 310 - Science, Health, and Safety for All PreK to Grade 4 Learners](#)

[ECED 351 - Literacy for the Emergent Reader: PreK to Grade 1 Learners](#)

[ECED 411 - Social Studies for All PreK to Grade 4 Learners](#)

[ECED 425 - Methods of Teaching and Assessing Language Arts: Pre-K to Grade 4 Learners](#) (~~5~~)

[ECED 451 - Literacy for the Developing Reader: Grades 2-4 Learners](#)

~~[ECED 499 - Advocacy and Collaboration in Diverse Families and Communities](#)~~

[ECSP 314 - Creative Experiences and Play for All PreK to Grade 4 Learners](#)

[EDEX 111 - Introduction to Exceptional Persons](#)

Credits: ~~2-5~~

Credits: 3

Credits: 3

Credits: 3

Credits: 3

Credits: 3

Credits: 3

Credits: 3

Credits: 3

Credits: ~~var~~-1

Credits: 1

Credits: 5-12 (+)

Credits: 3 (4,5)

Credits: 3

Credits: 3

Credits: 3

Credits: 3

Credits: 3

Credits: 3

Credits: 3

Credits: 3

Credits: ~~2-5~~

Credits: 3

Credits: 3

Credits: 3

Credits: 3

**Social Science:**

[GEOG 104 - World Geography: Global Context](#)

[PSYC 101 - General Psychology](#)

**Liberal Studies Electives:** 3

[MATH 152 - Elements of Mathematics II](#)

**College:** 24

**Preprofessional Education Sequence:**

[ETIT 103 - Digital Instructional Technology](#)

[EDSP 102 - Educational Psychology](#)

**Professional Education Sequence:**

[EDSP 477 - Assessment of Student Learning: Design and Interpretation of Educational Measures](#)

[EDUC 242 - Pre-student Teaching Clinical Experience I](#)

[EDUC 342 - Pre-student Teaching Clinical Experience II](#)

[EDUC 441 - Student Teaching](#)

[EDUC 442 - School Law](#)

**Major:** 50 (1, 2)

**Required Courses:**

[CDFR 310 - Child Observation and Assessment](#)

[ECED 112 - Childhood Development Birth-Age 5](#)

~~[ECED 117 - Family and Community Relationships in a Diverse Society](#)~~

[ECED 200 - Introduction to Early Childhood Education](#)

[ECED 215 - The Developing Child: K-4th Grade](#)

[ECED 250 - Language Development](#)

[ECED 280 - Maximizing Learning: Engaging All Learners](#)

[ECED 310 - Science, Health, and Safety for All PreK to Grade 4 Learners](#)

[ECED 351 - Literacy for the Emergent Reader: PreK to Grade 1 Learners](#)

[ECED 411 - Social Studies for All PreK to Grade 4 Learners](#)

[ECED 425 - Methods of Teaching and Assessing Language Arts: Pre-K to Grade 4 Learners](#)

[ECED 451 - Literacy for the Developing Reader: Grades 2-4 Learners](#)

[ECSP 314 - Creative Experiences and Play for All PreK to Grade 4 Learners](#)

[EDEX 111 - Introduction to Exceptional Persons](#)

[EDEX 323 - Instruction of English Language Learners with Special Needs](#)

[EDEX 369 - Education of Persons with Emotional/Behavioral Disorders, Learning Disabilities, or Brain Injury](#)

Credits: 3

Credits: 3

Credits: 3

Credits: 3

Credits: 3

Credits: 3

Credits: 1

Credits: 1

Credits: 12

Credits: 1

Credits: 3 (3, 4)

Credits: 3

Credits: 3

Credits: 3

Credits: 3

Credits: 3

Credits: 3

Credits: 3

Credits: 3

Credits: 3

Credits: 3 (4)

Credits: 3

Credits: 3

Credits: 3

Credits: 3

Credits: 2 (4)

Credits: 3

Credits: 3

EDEX 269 - ~~Identifying and Understanding Children with Academic and Social Learning Needs from Preschool through Adolescence~~ **Credits: 3**

EDEX 323 - Instruction of English Language Learners with Special Needs ~~(5)~~ **Credits: 2**

~~MATH 320—Mathematics for Early Childhood~~ **Credits: 3**

MATH 330 - Teaching Mathematics in the Elementary School **Credits: 3**

MATH 330 - Teaching Mathematics in the Elementary School

**Free Electives:** ~~0~~ 3

**Total Degree Requirements:** 120

~~(1) Students who are seeking a BSEd degree only (e.g., not early-admitted to the MEd—Literacy program) will take 12cr of student teaching. Students who are admitted early to the MEd—Literacy program will take 9cr of student teaching and LTCY 701 for a total of 12cr.~~

~~(2) A 3.0 cumulative GPA is required to apply for teacher certification, register for major courses, and student teach.~~

~~(3) In the semester in which students earn 90+ credits, they may apply to the School of Graduate Studies and Research for Early Admittance to the MEd—Literacy/Reading Specialist Program. Students must have a minimum 3.25 GPA to apply. Students must follow the Early Admission to Graduate Program Policy. Students who are accepted will automatically become graduate students at IUP upon degree completion with a minimum 3.0 GPA, and fulfillment of criteria outlined in IUP’s Early Admission to Graduate Program Policy.~~

~~(4) Students must have a grade of “C” or better in PSYC 101 and CDFR 218 or a grade of “C” or better in PSYC 101 and ECED 112 to register for this course.~~

~~(5) Students who are accepted for early admission to the MEd—Literacy program take the graduate course outlined in the program’s catalog description rather than the undergraduate course listed.~~

**Rationale:** This program is being revised to be updated with current PDE guidelines and professional standards. It is revised concurrently with the Early Childhood/Special Education program because revisions for that program impact both programs and courses that are required in each. The science requirements are being changed from three 2.5-credit science courses to a 4-credit science and 3-credit science to meet the liberal studies requirements. SCI 104 has been revised from 2.5 credits to 4 credits and SCI 101 and 102 have been proposed for a credit change from 2.5 credits to 3 credits. GEOG 104 will be the only recommended Geography course, instead of GEOG 101 and 102, so that students may use that course to meet the Global and Multicultural Awareness requirement.

## 21. Departments of Professional Studies in Education and Communication Disorders, Special Education, and Disability Services—Program Revision and Program Catalog Description Change **APSCUF Rep Council approved**

### a. Program Revision:

MATH 330 - Teaching Mathematics in the Elementary School **Credits: 3**

**Free Electives: 3**

**Total Degree Requirements:** 120

(1) A 3.0 cumulative GPA is required to apply for teacher certification, register for major courses, and student teach.

(2) In the semester in which students earn 60+ credits, they may apply to the School of Graduate Studies and Research for Early Admittance to the MEd—Literacy/Reading Specialist Program. Students must have a minimum 3.0 GPA to apply. Students must follow the Early Admission to Graduate Program Policy. Students who are accepted will automatically become graduate students at IUP upon degree completion with a minimum 3.0 GPA, and fulfillment of criteria outlined in IUP’s Early Admission to Graduate Program Policy.

(3) Students must have a grade of “C” or better in PSYC 101 and CDFR 218 or a grade of “C” or better in PSYC 101 and ECED 112 to register for this course.

(4) Students who are accepted for early admission to the MEd—Literacy program take the graduate course outlined in the program’s catalog description rather than the undergraduate course listed.

## Current Program:

### Early Childhood/Special Education, BSED

#### Liberal Studies: 43-5

As outlined in the Liberal Studies Requirements with the following specifications:

#### Humanities:

[HIST 196 - Explorations in US History](#)

Credits: 3

#### Mathematics:

MATH 151 - Elements of Mathematics I

Credits: 3

#### Natural Science:

~~3 of 4 required~~

~~[SCI 101 - Fundamentals of Physics](#)~~

~~Credits: 2-5~~

~~[SCI 102 - Fundamentals of Chemistry](#)~~

~~Credits: 2-5~~

~~[SCI 103 - Fundamentals of Earth and Space Science](#)~~

~~Credits: 2-5~~

~~[SCI 104 - Fundamentals of Environmental Biology](#)~~

~~Credits: 2-5~~

#### Social Science:

~~[GEOG 101 - Environment and Society](#)~~

~~Credits: 3~~

or

~~[GEOG 102 - Geography of the United States and Canada](#)~~

~~Credits: 3~~

or

[GEOG 104 - World Geography: Global Context](#)

Credits: 3

[PSYC 101 - General Psychology](#)

Credits: 3

Liberal Studies Electives: 3

[MATH 152 - Elements of Mathematics II](#)

Credits: 3

College: 25

#### Preprofessional Education Sequence:

~~[ACE 103 - Digital Instructional Technology](#)~~

~~Credits: 3~~

or

EDEX 103 - Special Education Technology

Credits: 3

EDSP 102 - Educational Psychology

Credits: 3

#### Professional Education Sequence:

EDSP 477 - Assessment of Student Learning: Design and Interpretation of Educational Measures

Credits:

EDUC 242 - Pre-student Teaching Clinical Experience I

Credits: var-1

EDUC 342 - Pre-student Teaching Clinical Experience II

Credits: 1

EDUC 442 - School Law

Credits: 1

EDUC 461 - Student Teaching

Credits: 6

EDUC 471 - Student Teaching

Credits: 6

Major: 61

#### Required Courses:

(1)

[ECED 117 - Family, Community, and School Relationships in a Diverse Society](#)

Credits: 2

[ECED 200 - Introduction to Early Childhood Education](#)

Credits: 3

~~[ECED 221 - Literature for the Young Child and Adolescent](#)~~

~~Credits: 3~~

[ECED 250 - Language Development](#)

Credits: 3

## Proposed Program:

### Early Childhood/Special Education, BSED

#### Liberal Studies: 43

As outlined in the Liberal Studies Requirements with the following specifications:

#### Humanities:

[HIST 196 - Explorations in US History](#)

Credits: 3

#### Mathematics:

MATH 151 - Elements of Mathematics I

Credits: 3

#### Natural Science:

[SCI 104 - Fundamentals of Environmental Biology](#)

Credits: 4

One of two required:

[SCI 101 - Fundamentals of Physics](#)

Credits: 3

[SCI 102 - Fundamentals of Chemistry](#)

Credits: 3

#### Social Science:

[GEOG 104 - World Geography: Global Context](#)

Credits: 3

[PSYC 101 - General Psychology](#)

Credits: 3

Liberal Studies Electives: 3

[MATH 152 - Elements of Mathematics II](#)

Credits: 3

College: 25

#### Preprofessional Education Sequence:

~~[EDEX 103 - Digital Instructional Technology](#)~~

~~Credits: 3~~

~~[EDSP 102 - Educational Psychology](#)~~

~~Credits: 3~~

#### Professional Education Sequence:

EDSP 477 - Assessment of Student Learning: Design and Interpretation of Educational Measures

Credits: 3

EDUC 242 - Pre-student Teaching Clinical Experience I

Credits: 1

EDUC 342 - Pre-student Teaching Clinical Experience II (ECED)

Credits: 1

EDUC 342 - Pre-student Teaching Clinical Experience II (EDEX)

Credits: 1

EDUC 442 - School Law

Credits: 1

EDUC 461 - Student Teaching

Credits: 6

EDUC 471 - Student Teaching

Credits: 6

Major: 61

#### Required Courses: (1)

[ECED 117 - Family, Community, and School Relationships in a Diverse Society](#)

Credits: 3

[ECED 200 - Introduction to Early Childhood Education](#)

Credits: 3

[ECED 250 - Language Development](#)

Credits: 3

[ECED 280 - Maximizing Learning: Engaging All Learners](#)

Credits: 3

[ECED 310 - Science, Health, and Safety for All PreK to Grade 4 Learners](#)

Credits: 3

[ECED 351 - Literacy for the Emergent Reader: PreK to Grade 1 Learners](#)

Credits: 3

[ECED 411 - Social Studies for All PreK to Grade 4 Learners](#)

Credits: 3

[ECED 451 - Literacy for the Developing Reader: Grades 2-4 Learners](#)

Credits: 3

[ECSP 314 - Creative Experiences and Play for All PreK to Grade 4 Learners](#)

Credits: 3

ECED 280 - Maximizing Learning: Engaging All <del>PreK to Grade 4</del> Learners	<b>Credits: 3</b>	EDEX 111 - Introduction to Exceptional Persons	<b>Credits: 3</b>
ECED 310 - Science, Health, and Safety for All PreK to Grade 4 Learners	<b>Credits: 3</b>	EDEX 114 - Growth and Development: Typical and Atypical	<b>Credits: 3</b>
ECED 351 - Literacy for the Emergent Reader: PreK to Grade 1 Learners	<b>Credits: 3</b>	EDEX 223 - Reading Methods and Strategies for Students with Disabilities	<b>Credits: 3</b>
ECED 411 - Social Studies for All PreK to Grade 4 Learners	<b>Credits: 3</b>	EDEX 323 - Instruction of English Language Learners with Special Needs	<b>Credits: 2</b>
ECED 451 - Literacy for the Developing Reader: Grades 2-4 Learners	<del>Credits: 3</del>	EDEX 340 - Introduction to Behavior Management in Special Education	<b>Credits: 3</b>
<del>ECSP 112 - Growth and Development: Typical and Atypical</del>	<b>Credits: 3</b>	EDEX 369 - Education of Persons with Emotional/Behavioral Disorders, Learning Disabilities, or Brain Injury	<b>Credits: 3</b>
ECSP 314 - Creative Experiences and Play for All PreK to Grade 4 Learners	<del>Credits: 3</del>	EDEX 378 - Education of Persons with Intellectual/Developmental Disabilities and Physical/Multiple Disabilities	<b>Credits: 3</b>
<del>ECSP 340 - Introduction to Classroom and Behavior Management</del>	<del>Credits: 3</del>	EDEX 424 - Strategic Assessment and Instruction in Expository Texts	<b>Credits: 3</b>
<del>EDEX 110 - Introduction to Special Needs PreK to Grade 8</del>		EDEX 435 - Methods and Curriculum—Severe Cognitive Disabilities	<b>Credits: 3</b>
<del>EDEX 269 - Identifying and Understanding Children with Academic and Social Learning Needs from Preschool through Adolescence</del>	<del>Credits: 3</del>	EDEX 458 - Transition Assessment and Planning for Youth with Disabilities	<b>Credits: 3</b>
<del>EDEX 278 - Identifying and Understanding Children with Significant Adaptive Behavior and Learning Needs from Birth through Adolescence</del>	<del>Credits: 3</del>	MATH 330 - Teaching Mathematics in the Elementary School	<b>Credits: 3</b>
EDEX 323 - Instruction of English Language Learners with Special Needs	<b>Credits: 2</b>	MATH 335 - Teaching Mathematics in Special Education	<b>Credits: 2</b>
EDEX 424 - Strategic Assessment and Instruction in Expository Texts	<b>Credits: 3</b>		
EDEX 435 - Methods and Curriculum—Severe Cognitive Disabilities	<b>Credits: 3</b>		
<del>EDEX 460 - Family Perspectives on Disability</del>	<del>Credits: 3</del>		
<del>MATH 320 - Mathematics for Early Childhood</del>	<del>Credits: 3</del>		
MATH 330 - Teaching Mathematics in the Elementary School	<b>Credits: 3</b>		

**Total Degree Requirements: 129-5**

(1) A 3.0 cumulative GPA is required to register in the Teacher Certification Sequence courses.

(\*) See requirements leading to teacher certification, titled “3-Step Process for Teacher Education,” in the College of Education and Communications section of this catalog.

**Total Degree Requirements: 129**

(1) A 3.0 cumulative GPA is required to register in the Teacher Certification Sequence courses.

(\*) See requirements leading to teacher certification, titled “3-Step Process for Teacher Education,” in the College of Education and Communications section of this catalog.

**b. Program Catalog Description Change:**

**Current Catalog Description:**

This Early Childhood Education/Special Education (ECSP) program is designed to assist students in becoming highly qualified, competent, and effective teachers of all learners in grades preK through 4. The program has an emphasis on best practices in both early childhood education and special education. Students in this program will meet the academic requirements for Pennsylvania certification in preK to grade 4, as well as special education preK to grade 8.

This program, combining course work in both early childhood education and special education with extensive field experiences, prepares students to be professional educators who are well qualified to utilize appropriate techniques and strategies to expand all children's cognitive, social, emotional, and physical development. Field experiences will take place in a variety of settings encompassing diverse learning needs as well as learners in birth to grade 3 classrooms, preschool classrooms, K-1 classrooms, and classrooms in grades 2-4.

Admission to this program requires entering students to meet the guidelines for admission to the [College of Education and Communications](#). Additionally, students must achieve a 3.0 GPA to apply for Step 1 of the Teacher Education process to enroll in major courses, to student teach, and to be recommended for certification. Students must meet the requirements leading to teacher certification as outlined in this catalog.

### **Proposed Catalog Description:**

This Early Childhood Education/Special Education (ECSP) program is designed to assist students in becoming highly qualified, competent, and effective teachers of all learners. The program has an emphasis on best practices in both early childhood education (preK to grade 4) and special education (preK to grade 12). Students in this program will meet the academic requirements for Pennsylvania certification in preK to grade 4, as well as special education preK to grade 12.

This program, combining course work in both early childhood education and special education with extensive field experiences, prepares students to be professional educators who are well qualified to utilize appropriate techniques and strategies to expand all children's cognitive, social, emotional, and physical development. Field experiences will take place in a variety of settings encompassing diverse learning needs as well as learners in birth to grade 3 classrooms, preschool classrooms, K-1 classrooms, and classrooms in grades 2-4 and special education experiences preK to grade 12.

Admission to this program requires entering students to meet the guidelines for admission to the [College of Education and Communications](#). Additionally, students must achieve a 3.0 GPA to apply for Step 1 of the Teacher Education process to enroll in major courses, to student teach, and to be recommended for certification. Students must meet the requirements leading to teacher certification as outlined in this catalog.

**Rationale:** The program is being revised since Pennsylvania has changed the certification grade bands in Special Education. Any student graduating after December of 2021 with special education certification will be required to receive the new PreK-12 grade band certification. By January 2021, programs preparing preservice teachers in the field of Special Education in Pennsylvania must ensure that they are meeting the competencies of a certification that ranges from Prek-12 up to age 21. In other words, Special Education Teaching Certification will be returning to a stand-alone program that does not require an additional content area. The current Early Childhood with Special Education Program (ECSP) addresses preparing preservice teachers with the skills to teach students in the early childhood (Prek-4) grades for general education. The special education part of this program addresses the skills needed to teach students in special education up to eighth grade. Therefore, changes were made to ensure that the program is covering adolescents and young adults identified with any of the 13 categories under IDEA. Any ECSP student could potentially be placed by the school district in a special education position through 12th grade to alleviate the shortages of special educators at the secondary level.

## **22. Liberal Studies and UWUCC Approved the following:**

- **CHEM 107 - Chemistry of Food and Beverages was approved as a non-lab Natural Science Course.**
- **ENGL 256 - Videogames and Digital Literature was approved as a Humanities Literature Course.**
- **FSMR 125 - Cultural Studies of Dress and Appearance was approved as a Social Science Knowledge Area course and a Global and Multicultural Awareness course.**
- **PNAF 131 - Introduction to Pan-African Studies was approved as a Liberal Studies Elective, Global Citizenship, and Global and Multicultural Awareness course.**
- **SCI 101 - Fundamentals of Physics was reapproved as a non-lab Natural Science Course.**
- **SCI 102 - Fundamentals of Chemistry was reapproved as a Natural Science non-lab course.**
- **SCI 104 - Fundamentals of Environmental Biology was approved as a Natural Science Lab Course.**
- **SPAN/SAFE 221 Oral Communication in Spanish for Safety and Health was approved as a Liberal Studies Elective (Oral Communication) course.**