



EDINBORO  
UNIVERSITY

UNDERGRADUATE CATALOG  
2014 - 2016



# EDINBORO UNIVERSITY OF PENNSYLVANIA

## 2014-2016

# Undergraduate Catalogue

### Accreditation and Recognition

Edinboro University of Pennsylvania is accredited by the Middle States Commission on Higher Education, 3624 Market Street, Philadelphia, Pa., 19104, 267-284-5000. The Middle States Commission on Higher Education is an institutional accrediting agency recognized by the U.S. Secretary of Education and the Council for Higher Education Accreditation.

Other University accreditations and program approvals include: the Master of Arts in Rehabilitation Counseling by the Council on Rehabilitation Education; the Master of Arts in Counseling: School Counseling-Elementary, School Counseling-Secondary, College Counseling, and Community Counseling, by the Council for Accreditation of Counseling and Related Educational Programs; the Master of Arts in Speech-Language Pathology by the Council on Academic Accreditation in Audiology and Speech-Language Pathology; the Bachelor of Science in Social Work and the Master of Social Work by the Council on Social Work Education; the Bachelor of Arts in Music, the BA in Music (Teacher Certification), and Community Music School by the National Association of Schools of Music; and the Associate Degree in Business Administration and Baccalaureate Degree in Business Administration with concentrations in Accounting, Comprehensive Business Administration, Financial Services, and Marketing by the Accreditation Council for Business Schools and Programs. The Bachelor of Arts in Art History, Bachelor of Science in Art Education, Bachelor of Fine Arts in Applied Media Arts, Bachelor of Fine Arts in Studio Art, Master of Arts in Studio Art, and Master of Fine Arts in Studio Art are accredited by the National Association of Schools of Art and Design. The baccalaureate programs in nursing are accredited by the Commission on Collegiate Nursing Education and approved by the Pennsylvania State Board of Nursing. The Master of Science in Nursing/Family Nurse Practitioner joint program with Clarion University of Pennsylvania is accredited by the Accreditation Commission of Education in Nursing, formerly National League for Nursing and approved by the Pennsylvania State Board of Nursing. Teacher education and school personnel preparation programs are accredited by the National Council for Accreditation of Teacher Education and approved by the Pennsylvania Department of Education. Chapter 49 Middle Level Certificate 4-8 is approved by Pennsylvania Department of Education. The Ed.S. in School Psychology is approved by the National Association of School Psychologists. The Bachelor of Science in Computer Science

- Theoretical Track, by the Accreditation Board for Engineering and Technology, Inc.; the Bachelor of Science in Chemistry is approved by the American Chemistry Society.

### Non-Discrimination Statement

Edinboro University of Pennsylvania is an equal opportunity education institution and employer and will not discriminate on the basis of race, color, national origin, sex, sexual orientation and disability in its activities, programs or employment practices as required by [Title VI](#), [Title VII](#), [Title IX](#), [Section 504](#), [ADEA](#) and the [ADA](#).

For information regarding civil rights or grievance procedures and for inquiries concerning the application of Title IX and its implementing regulation, contact Ms. Valerie O. Hayes, J. D. Director of Social Equity / University Title IX Coordinator, 207 Reeder Hall, 219 Meadville Street, Edinboro, PA 16444 (814-732-2167). Additionally, inquiries concerning Title IX and its implementing regulation can be made to the U.S. Department of Education, Office of Civil Rights, Region III, 150 S. Independence Mall West, Suite 372, Public Ledger Building, Philadelphia PA 19106-9111 | Phone: 800-368-1019 | Fax: 215-861-4431 | TDD: 800-537-7697.

For information or assistance regarding services, activities and facilities that are accessible to and used by persons with a disability, contact the [Office for Students with Disabilities](#) at the Crawford Center (814-732-2462 V/TTY).

### Social Equity

The Office of Social Equity provides leadership as well as assists others in the creation of a campus environment that promotes diversity and values individual differences and similarities. The Office also is responsible for overseeing the University's compliance with Federal and State laws pertaining to equal opportunity, nondiscrimination, and affirmative action and, as such, investigates complaints of harassment and other forms of prohibited or unlawful discrimination. Most students will complete their education at Edinboro University without the need to pursue a complaint. Students who believe, however, that they have been subjected to harassment or other forms of prohibited discrimination from employees may contact the Office of Social Equity at 814-732-2167.

This catalogue contains requirements, regulations, facts, and descriptions which are subject to change at any time. The University specifically reserves the right and authority to alter and amend any and all statements contained herein.

The educational policies and procedures are continually reviewed and changed in keeping with the educational mission of the University. Consequently, this document cannot be considered binding and is intended to be used only as an informational guide. Students are responsible for keeping informed of official policies and regulations and for meeting all appropriate requirements. Current information is available at the Office of Records and Registration and in other appropriate offices.

## **Title IX**

“The sexual harassment of students, including sexual violence, interferes with students’ right to receive an education free from discrimination and, in the case of sexual violence, is a crime.” U.S. Department of Education, Office for Civil Rights, April 4, 2011. For concerns of gender equity, including complaints of sexual harassment and sex/gender discrimination, contact Valerie Hayes, Director of Social Equity/University Title IX Coordinator at 814-732-2167. In cases involving acts of sexual violence or sexual assault, please contact the [University Police Department](#) at extension 2911 (on-campus) for an emergency, or at extension 2921, or if off-campus, please contact your local police department.

## **University Ombudsman Office**

The university Ombudsman is a confidential resource for all members of the campus community to talk with informally, anytime, about anything. The Ombudsman provides a safe and neutral place for faculty, staff, students, parents and retirees to discuss conflicts, concerns or problems.

The Ombudsman can offer options for resolution; can mediate a conflict, or explain policy and procedures, and is strictly confidential. The Ombudsman is committed to the pursuit of equity and fairness. Anyone can contact the Ombudsman as a safe first step in dealing with a problem, as a last resort, or at any point along the way -- especially if you don’t know what to do, where to go, or who to talk to.

## **Contact the Ombudsman**

I will arrange a confidential meeting at a time and place convenient for you. It is helpful if you make an appointment, but you can drop by the office without an appointment. I can be most effective if I meet with you, but if you prefer, I can work with you over the telephone. I generally do not work through e-mail and discourage you from e-mailing any confidential information.

Marilyn Goellner  
(814) 732-1710 or  
(814) 440-1482

Alumni House  
210 Meadville Street, 2nd Floor  
(across the street from Cole Auditorium)

Office Hours: Monday-Friday, 8 a.m. – 4:30 p.m.  
By appointment at other times and other locations, if necessary.

**For more information and additional FAQ,  
please refer to University Ombudsman Office website.**

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## **Mission Statement**

Distinguished by its focus on individual attention to student success, commitment to diversity, and responsiveness to the evolving needs of the broader community, Edinboro University provides the highest quality undergraduate, graduate and co-curricular education.

## **Values Statement**

Edinboro University is committed to creating opportunities for intellectual and personal growth in an inclusive environment. We value excellence, curiosity, respect, responsibility, and integrity.

## **Vision Statement**

Edinboro University will be the first choice among students, employers, and the community for excellence in higher education.

## 2014-2015

### (50-Minute Periods)

#### FIRST SEMESTER (Fall 2014)

Classes Begin .....	Monday, August 25
Labor Day Holiday (no classes) .....	Monday, September 1
Reading Day (no classes) .....	Tuesday, October 14
Thanksgiving Break Begins (close of classes).....	Tuesday, November 25
Thanksgiving Break Ends (classes resume).....	Monday, December 1
Last Day of Classes.....	Friday, December 5
Exam Period Begins.....	Monday, December 8
Semester Ends .....	Friday, December 12
Commencement .....	Saturday, December 13

#### SECOND SEMESTER (Spring 2015)

Classes Begin .....	Tuesday, January 20
Spring Break Begins .....	Saturday, March 7
Spring Break Ends (classes resume) .....	Monday, March 16
Classes End .....	Monday, May 4
Exam Period Begins.....	Tuesday, May 5
Semester Ends .....	Friday, May 8
Commencement .....	Saturday, May 9

## 2015-2016

### (50-Minute Periods)

#### FIRST SEMESTER (Fall 2015)

Classes Begin .....	Monday, August 24
Semester Ends .....	Friday, December 11
December Commencement .....	Saturday, December 12

#### SECOND SEMESTER (Spring 2016)

Classes Begin .....	Tuesday, January 19
Semester Ends .....	Friday, May 6
Commencement .....	Saturday, May 7

# Programs of the University

## COLLEGE OF ARTS, HUMANITIES, AND SOCIAL SCIENCES

### Undergraduate Programs

#### Certificate Programs

CERT – Customer Relations  
Management

#### Associate Degree Programs

AA – Criminal Justice  
AA – Human Services/Social  
Services  
AA – Liberal Studies

#### Bachelor of Arts Degrees

BA – Anthropology  
BA – Communication Studies  
BA – Criminal Justice  
BA – English  
Literature  
Writing  
BA – History  
Comprehensive History  
Digital History  
Military History  
BA – Individualized Studies  
BA – Journalism and Public  
Relations  
Journalism  
Public Relations  
BA – Music  
Music Education  
BA – Political Science  
Legal Studies  
BA – Sociology

#### Bachelor of Fine Arts Degrees

BFA – Applied Media Arts  
Cinema (Animation,  
Computer Animation,  
Film & Video)  
Graphic & Interactive Design  
Photography  
BFA – Studio Arts  
Ceramics  
Drawing  
Illustration  
Jewelry/Metalsmithing  
Painting  
Printmaking  
Sculpture  
Wood/Furniture

#### Bachelor of Science Degrees

BFAE – Art Education

## COLLEGE OF SCIENCE AND HEALTH PROFESSIONS

### Undergraduate Programs

#### Associate Degree Programs

AET – Manufacturing Engineering  
Technology  
AAS – Applied Technology  
AS – Computer Science  
AS – Pre-Pharmacy  
AS – Pre-Pharmacy - LECOM

#### Bachelor of Arts Degrees

BA – Biology  
Pre-Chiropractic  
Pre-Physician Assistant  
Pre-Physical Therapy  
BA – Chemistry  
BA – Earth Sciences  
BA – Geography  
Environmental Studies  
Urban Regional Planning

#### Bachelor of Science Degrees

BS – Biology/Pre-Healing Arts  
Dental  
Medical  
Pharmacy  
Veterinary  
BS – Chemistry  
Forensic Science  
Biochemistry  
BS – Computer Science  
Applied Game and  
Virtual World  
Development  
Network and System  
Administration  
Theoretical Web  
Development and  
Implementation  
BS – Environmental Science/  
Biology  
BS – Geology  
Environmental Geology  
BS – Industrial Engineering  
Administration  
BS – Mathematics  
Actuarial Science  
BS – Medical Technology  
BS – Nuclear Medicine Technology  
BS – Nursing  
BS – Physics  
Cooperative Engineering  
Liberal Arts  
Theoretical  
BS – Psychology  
Applied Developmental  
Custom Focus  
Applied Mental Health  
BS – Social Work  
BS – Speech and Hearing Sciences  
BSN – Nursing

## SCHOOL OF BUSINESS

### Undergraduate Programs

#### Associate Degrees

AS – Business Administration

#### Bachelor of Science Degrees

BS – Business Administration  
Accounting  
Accounting/Forensic  
Accounting & Fraud  
Examination  
Comprehensive Business  
Admin.  
Financial Services  
Management Information  
Systems  
Marketing  
BS – Economics

## SCHOOL OF EDUCATION

### Undergraduate Programs

#### Associate Degrees

AA – Human Services/  
Developmental Disabilities Specialist  
AS – Pre-School Education

#### Bachelor of Science in Education Degrees

BS in Ed. – Early Childhood Education  
BS in Ed. – Early Childhood Education  
(P-4) and Special  
Education (P-8)  
BS in Ed. – Middle Level Education  
English/Language Arts/  
Reading  
Math and English/Lang  
Arts/Reading  
Math and Science  
Math and Social Studies  
Mathematics  
Science  
Science and English/Lang  
Arts/Reading  
Science and Social Studies  
Social Studies  
BS in Ed. – Secondary Education  
Biology  
Chemistry  
Comprehensive English  
Earth and Space Science  
General Science  
Mathematics  
Physics  
Social Studies BS in Ed. –  
Secondary Education  
Biology/Special  
Education 7-12

Chemistry/Special Education 7-12	MED	–	Middle and Secondary Education <sup>2</sup>	<b>Post-Baccalaureate Teacher Certification*</b> Biology Chemistry Comprehensive English Early Childhood Education Earth/Space Science General Science <sup>1</sup> Health and Physical Education Mathematics Middle Level - English Middle Level – Mathematics Middle Level – Science Middle Level – Social Studies Middle Level – English and Mathematics Middle Level – English and Science Middle Level – Mathematics and Science Middle Level – Mathematics and Social Studies Middle Level – Science and Social Studies Music Physics Social Studies
Comprehensive English/Special Education 7-12			English	
Earth and Space Science/Special Education 7-12			Mathematics/Science Teacher Certification	
Mathematics/Special Education 7-12			Social Studies Middle Level Non-Thesis	
Physics/Special Education 7-12	MED	–	Reading <sup>2</sup>	
Social Studies/Special Education 7-12	MED	–	Special Education <sup>2</sup> Autism Behavior Management	
BS in Health and Physical Education	MFA	–	Studio Arts	
Health Promotion			Ceramics	
Human Performance			Jewelry/Metalsmithing	
Sport & Recreation Administration			Painting	
Teacher Certification			Printmaking Sculpture	
<b>Graduate Programs</b>	MS	–	Biology Ecology Medical Sciences	
DNP – Doctor of Nursing Practice (in consortium with Clarion University) <sup>3</sup>	MSN	–	Nursing (in consortium with Clarion University) <sup>3</sup> Family Nurse Practitioner	
EDS – Educational Specialist in School Psychology			Post-master’s Family Nurse Practitioner Certificate (in consortium with Clarion University) <sup>3</sup>	
MA – Art Studio Art Art Education <sup>2</sup>	MSW	–	Social Work <sup>2</sup>	
MA – Communication Studies <sup>2</sup> Internship Non-Internship	PA		Principal K-12 Post-master’s Certificate (Gainful Employment information) <sup>1,2</sup> Supervisor of Special Education Post-master’s Certificate (Gainful Employment information) <sup>1,2</sup> Letter of Eligibility for Superintendents Post-master’s Certificate (Gainful Employment information) <sup>1,2</sup> Institutional Certificate – Conflict Management (Gainful Employment Information) <sup>2</sup> Reading Specialist Certificate (Gainful Employment information) <sup>2</sup> Elementary School Guidance Counselor Certificate (Gainful Employment information) <sup>1</sup> Secondary School Guidance Counselor Certificate (Gainful Employment information) <sup>1</sup> Post Master’s Licensure Preparation <sup>1</sup>	
MA – Counseling Rehabilitation Community College School School				
MA – Social Sciences Anthropology History Political Science Sociology				
MA – Speech/Language Pathology				
MED – Early Childhood Education <sup>2</sup>				
MED – Educational Leadership <sup>2</sup>				
MED – Educational Psychology <sup>2</sup>				

\*Proof of citizenship or submission of Pennsylvania Department of Education form on intent to become a citizen needed for application to PDE for these certifications.

<sup>1</sup> post master’s program

<sup>2</sup> program offered online

<sup>3</sup> program offered online in consortium with Clarion University



## GOVERNOR OF PENNSYLVANIA

The Honorable Tom Corbett

## PENNSYLVANIA STATE SYSTEM OF HIGHER EDUCATION

Frank T. Brogan, *Chancellor*

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## EDINBORO UNIVERSITY OF PENNSYLVANIA

Dr. Julie E. Wollman, *President*

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Dr. Kahan Sablo, *Vice President for Student Affairs*

## President's Message

Dear Edinboro University student:

Welcome to Edinboro University! I am delighted that you've chosen to pursue your goals here. You've made an outstanding choice and it is my privilege to welcome you to the Edinboro family. Edinboro offers you an exceptional education on a campus committed to your academic success and personal growth. Your success is a shared responsibility. Your responsibility is to enthusiastically take advantage of everything Edinboro has to offer. Our responsibility is to make sure that you have the very best academic and extracurricular opportunities available

We are here for you. Every Edinboro employee has one priority: your success — in each course, in your major, in extracurricular activities, and above all your success in achieving your degree. We know the lasting value of an Edinboro degree and we want you to have the opportunity to earn a degree that will be the foundation for a successful career and a life of significance after graduation.

Beginning in 1857, our founders launched a long and rich tradition of excellence, ongoing improvement, and persistence in the face of challenge. We continue that tradition, working diligently to offer the impressive array of top quality academic options you'll encounter in this Undergraduate Catalog.

We expect that you'll work with equal diligence to make the most of the excellent learning opportunities offered to you. Our classes are small enough that you can develop relationships with our faculty, who are focused on teaching and building mentoring relationships with our students. Get to know your professors, take advantage of the opportunity to work closely with them on research and special projects, attend campus lectures, athletic events, and performances. Engage wholeheartedly and you will exceed your own expectations and realize your fullest potential.

You are here at Edinboro because in the admissions process we recognized your promise to excel and graduate. Whether you are a traditional or adult student, a resident or a commuter, you are now a valued member of our community. We insist on a collegial, respectful, and safe environment for all — a welcoming environment in which we benefit from your participation. We hold the highest standards for excellence in all that we do. We expect you to achieve excellence here on campus and in your lives after graduation. We are dedicated to helping you get there and to making the journey one that is filled with challenge, excitement, and the rewards of a job done well. On behalf of the Edinboro community, I pledge to tirelessly uphold and advance our commitment to excellence and our commitment to you!

Dr. Julie E. Wollman, President



## Communications Directory

<b>University Switchboard</b> .....	<b>(814) 732-2000</b>
President .....	732-2711
Provost and Vice President for Academic Affairs .....	732-2729
Vice President for Finance and Administration .....	732-2585
Vice President for Student Affairs .....	732-2313
Vice President for University Advancement .....	732-2992
Dean of School of Education .....	732-2752
Dean of College of Arts, Humanities and Social Sciences .....	732-2400
Dean of College of Science and Health Professions .....	732-2440
Dean of School of Business .....	732-2460

### Academic Departments

Art .....	732-2406
Biology and Health Services .....	732-2500
Business and Economics .....	732-2407
Chemistry .....	732-2485
Communication Studies .....	732-2444
Counseling, School Psychology and Special Education .....	732-2287
Early Childhood and Reading .....	732-2750
Middle and Secondary Education and Educational Leadership .....	732-2830
English and Liberal Studies .....	732-2736
Geosciences .....	732-2529
Health and Physical Education .....	732-2502
History, Anthropology, and World Languages .....	732-2575
Journalism and Public Relations .....	732-2444
Mathematics and Computer Science .....	732-2760
Music .....	732-2555
Nursing .....	732-2900
Physics and Technology .....	732-2592
Political Science and Criminal Justice .....	732-2409
Psychology .....	732-2774
Social Work .....	732-2013
Sociology .....	732-2573
Speech, Language and Hearing .....	732-2433

### Other Offices

Admissions .....	732-2761
Affirmative Action .....	732-2167
Alumni .....	732-2715
Bookstore .....	732-2456
Bursar's Office .....	732-3502
Center for Career Services .....	732-2781
Continuing Education .....	732-2544
Dining Services .....	732-2635
Porreco College .....	836-1955
Financial Aid .....	732-3500
Graduate Studies .....	732-2856
Health Center .....	732-2743
International Student Services .....	732-2770
Library .....	732-2273
Office for Adult Student Services .....	732-2701
Office for Students with Disabilities .....	732-2462
Pogue Student Center .....	732-2842
Police .....	732-2921
Public Relations .....	732-1731
Records and Registration .....	732-3501
Residence Life and Housing .....	732-2818
ROTC/Military Service .....	732-2562
Student Government .....	732-2910
Technology and Communications Center .....	732-2931

## Edinboro At A Glance

Edinboro University of Pennsylvania, a multi-purpose institution of higher learning, is one of the leading educational institutions in western Pennsylvania. Located in the resort community of Edinboro, the University is only 18 miles from Erie and within 100 miles of the educational and major population centers of Buffalo, Cleveland and Pittsburgh.

Edinboro University boasts 42 buildings on a spacious 585-acre campus which includes a five-acre lake, open fields and woods, eight on-campus residence halls for approximately 2, 500 students, and a modern seven-story library with more than 480,000 bound volumes and 1.3 million microform units. In addition, Edinboro University in Erie – The Porreco College, in Erie, consists of 27 acres and 11 buildings.

More than one-half of the faculty members at Edinboro University have earned doctorates or the highest degree attainable in their field. Many of them have been recognized nationally and internationally for their outstanding research and scholarly accomplishments. In addition, a number of faculty members have held state and national leadership roles in their professional organizations. The student-faculty ratio is 18:1.

There are more than 100 student-related clubs and organizations which offer a wide variety of activities. Students are involved with formal and informal dances, movies, skiing trips, fraternities, sororities, etc. In addition, there are 16 choral and instrumental musical groups open to students.

The Edinboro University Alumni Association has experienced dramatic growth during the past several years and now has 55,000 members. The alumni have played a major role in fund-raising efforts for student scholarships, and they continue to be some of the best ambassadors for Edinboro University. Among the many graduate and professional schools attended by recent Edinboro graduates are American University, Berkeley, Eastman School of Music, Georgetown University, Hershey Medical School and the Massachusetts Institute of Technology. Edinboro graduates have brought credit to the University in such positions as government officials, legislators, federal agents, corporate executives and administrators, and college presidents.

Students with exceptionally high academic aptitude scores and excellent high school records are eligible to participate in the University's Honors Program. One of the leading programs in the nation, the Edinboro Honors Program has been used as a model by many colleges and universities.

The Office for Students with Disabilities administers support services dedicated to enhancing the University's commitment to equal opportunity for students with disabilities. The University provides the largest attendant care program of its kind in the Commonwealth of Pennsylvania making Edinboro University a national leader in services for students with severe disabilities. Edinboro's students with disabilities and many visitors benefit from a campus which is very accessible, disability friendly, and which celebrates diversity.

Recognizing that classroom learning provides only part of a complete education, Edinboro University provides off-campus internships in businesses, industries and offices throughout the tri-state area and beyond. Students have successfully completed internships with such organizations as General Electric, the Cleveland Browns, CNN, Ford Motor Company, Disney World, the American Cancer Society, and the Pennsylvania House of Representatives.

An international education program provides educational opportunities for students from 40 other countries. Visiting scholars from around the world serve as resource individuals for area schools, businesses and industries, in addition to providing special lectures, seminars and workshops for Edinboro students and faculty.

# GENERAL INFORMATION



EDINBORO  
UNIVERSITY

## ADMISSION

Edinboro University utilizes a rolling admissions system, which means applications are processed until capacities are filled. There are no admission application deadlines.

### Admission Requirements

Candidates for admission must satisfy the general requirements as outlined below:

1. Edinboro University grants admission on the basis of general scholarship, character, interest, and motivation as they may be determined by official scholastic records, aptitude tests, recommendations, and interviews.
2. General scholarship as evidenced by graduation from an approved high school, homeschool, or institution of equivalent grade or equivalent preparation as determined by the Credentials Division of the Department of Education. Each applicant must file an official transcript of high school achievement or equivalent preparation. To fully prepare for a University program of study and increase the probability for academic success, students should pursue a college preparatory curriculum at the secondary level.
3. Scholastic aptitude as evidenced by the score on the SAT, published by the College Entrance Examination Board or the American College Testing Program ACT. Students who have been out of high school for more than two years are not required to participate in a college entrance examination (SAT or ACT). There are a few exceptions to this policy, i.e., nursing, LECOM seven-year medical program, LECOM five-year pharmacy program, education, etc. Please check with the Undergraduate Admissions Office if you have questions on whether or not you should take the SAT/ACT examinations.
4. Satisfactory character, as well as proper interest and attitudes, as determined by the high school principal, guidance counselor, homeschool official, employer, or other official acquainted with the student and in a position to provide pertinent insights as to the candidate's ability to succeed on the college level.
5. For admission to certain other specific curriculums, the University may require the candidate to take an appropriate test or audition, or supply further evidence of ability to succeed in the chosen academic area.
6. An audition for all applicants to any music curriculum is required as part of the admission process, and is necessary prior to acceptance. The applicant will be invited to participate in the audition sometime after the application for admission has been received in the Office of Undergraduate Admissions from the student.
7. The Report of Medical History, required by the University, is sent to the student at the time of acceptance and must be returned prior to enrollment.

The University admits students to specific curricula. However, individuals should be aware that retention beyond the initial first year in many programs requires that certain minimum standards must be met. Details may be secured from the dean of the school to which the student has been accepted.

### Admission Procedure

Students may make application for admission as early as July 1, after finishing the junior year of high school.

To be considered, applicants must complete all the following steps:

#### Applicants for the Freshmen Class

1. Application for admission may be completed online at <http://www.edinboro.edu> or by contacting the Admissions Office, Edinboro University of Pennsylvania, Edinboro, PA 16444, local/TTY: 814-732-2761, toll free: 1-888-8GO-BORO, fax: 814-732-2420. Applications can also be secured at most high school guidance offices.

2. A thirty dollar (\$30) application fee which is non-refundable and is not applicable to the student's financial account. This fee is paid at the time of application. If the application fee is not paid online, checks or money orders should be made payable to Edinboro University.
3. Request that the appropriate school official complete the Secondary School Report (official high school transcript) and send it to the Admissions Office. All documents submitted by the student become the property of Edinboro University and cannot be returned.
4. Arrange through the high school to participate in the College Board SAT or the American College Testing Program ACT. Either test is acceptable for admission to Edinboro. Junior year scores and/or senior year scores may be submitted. Students who have been out of high school for more than two years are not required to participate in a college entrance examination (SAT or ACT). There are a few exceptions to this policy, i.e., nursing, LECOM seven-year medical and pharmacy programs, education, etc. Please check with the Undergraduate Admissions Office if you have questions on whether or not you should take the SAT/ACT examinations.
5. Participate in a personal interview, if one is deemed necessary by the Admissions Office.
6. Pay all deposits and fees when required.
7. The Report of Medical History will be sent to the student after acceptance is granted to the University. This form should be completed by the family physician and returned prior to enrollment to the director of Health Services of Edinboro University.

A formal letter from the Admissions Office will notify the applicant of their status after the above steps, #1 through #5, have been completed.

### Special Students

Applicants who do not wish to work for a college degree may be considered for admission to Edinboro University if they present evidence of ability to do college level work. Such non-degree seeking students are considered Special Students and are permitted to remain in attendance for no longer than the equivalent of one academic year or 32 semester hours of credit. If, at that point, a Special Student wishes to pursue further studies for a degree, the student must meet all entrance requirements outlined in the University catalogue before being considered for a degree-seeking status.

1. Applicants who are not high school graduates, but demonstrate the ability and initiative to engage in college level coursework, may be admitted as Special Students. Such students may take courses, receive grades and earn credits like other students, and their grades and credits become a part of their permanent academic record at Edinboro University. However, these credits will not be accepted towards a degree at Edinboro University until a student has received a high school diploma or demonstrated equivalency.
2. Special Students may have definite programs of study which they would like to follow and can only enroll in courses where required prerequisites are met. Special Students will be given second priority to degree candidates for available class seats.
3. Special Students are subject to the same rules and regulations of the University as other students. Additionally, a grade of "C" or above in each course is expected of all Special Students. A lesser performance could preclude further registration.
4. For admission as a Special Student, a personal interview is strongly recommended with a member of the admission staff or other designated personnel. This will allow the candidate to fully discuss the reason for enrollment as a Special Student, and the programs/services available at the University to serve those needs. At that time the Special Student application can be completed, along with the submission of the required \$30.00 non-refundable application fee.
5. To obtain materials regarding Special Student enrollment, interested persons may contact the Admissions Office.

## Dual Enrollment for High School Students

Students who are currently still enrolled in high school, who would like to take college level courses at Edinboro, may do so with special permission. They must satisfy the requirements as follows:

1. Apply for admission as a Special Student.
2. Have written permission from a high school official, either the principal or guidance counselor, indicating that the student is in good academic standing.
3. Demonstrate the general scholarship, character, interest and motivation to be successful on the college level, in concert with concurrent high school studies.
4. Dual enrollment is limited to eight credits (two classes) per semester, and summer.
5. Although it is preferred that dual enrollment/special student admission for high school students be limited to juniors and seniors, younger students may be granted exceptions on a case by case basis.
6. Dual enrollment high school students are subject to the same rules and regulations of the University as other Special Students.

## Transfer Students and Advanced Standing

Edinboro University accepts credits in transfer from institutions of higher education which are accredited by regional accrediting bodies (e.g., Middle States Association of Colleges and Schools). Coursework completed at institutions which are not regionally accredited may be accepted by the University following evaluation by the academic deans in consultation with department chairs.

A student who completes an associate degree from a publicly supported Pennsylvania community college can expect to have all coursework considered for transfer. "D" grades for such students will be treated as the University treats "D" grades for its indigenous students.

Students who have attended other post-secondary institutions of study beyond high school, and who wish to enter Edinboro University will be expected to meet the following requirements:

1. Meet the regular admissions requirements. (See above this section)
2. Have on file an official high school transcript, and official transcripts from all post-secondary institutions attended. The official transcripts must indicate satisfactory achievement and show honorable withdrawal, i.e., academic, financial, student affairs, etc. A review of all previous official transcripts will be conducted by Edinboro University for both admission purposes, as well as course and credit transfer to the University. All documents submitted by the student become the property of Edinboro University and cannot be returned.
3. A student standards data form must be completed by the Student Affairs Officer at the institution last attended by the transfer student. This form will be sent to the student upon his/her acceptance. It must be completed by the previous institution and be on file in the Edinboro Admissions Office prior to enrollment. Enrollment is contingent upon honorable withdrawal from the previous institution as indicated by the Student Affairs Form.
4. Complete at least one semester's work of satisfactory quality at Edinboro University before assigned to student teaching.

No student may be assigned student teaching without having the semester hours required in his/her first field of specialization and without having taken professional courses required for certification.

Transfer credit completed by correspondence is accepted from regionally accredited institutions of higher education up to a maximum of 30 semester hours. Transfer credit is also awarded for coursework completed by correspondence for members of the Armed Forces of the United States enrolled in an approved Department of Defense program. Transfer credit is not awarded for the completion of non-academic credits such as Continuing Education Units (CEUs).

Students who transfer from another institution in the State System of Higher Education or Pennsylvania public two-year institution may be eligible for the Academic Passport. For more information, please check the table of contents for Academic Passport or [www.pashe.edu/answers/pages/academic-passport.aspx](http://www.pashe.edu/answers/pages/academic-passport.aspx).

Credit to meet the degree requirements for a particular program will not be given for: 1) courses which are not equivalent to those required or approved in the curricula offered in this university; 2) courses completed at other colleges or universities in which grades below C- were earned, unless otherwise specified, i.e. SSHE Academic Passport, individual articulation agreements, etc. Courses from accredited institutions which are designated as transferable may or may not be counted as part of the requirement for graduation from Edinboro. All credits of students who apply for admission with advanced standing must be approved by the dean of the school in which they will be majoring, and the dean will determine the extent to which credits meet general education and major course requirements for each degree.

Students entering Edinboro University seeking a baccalaureate degree must earn at least 30 of their last 45 credits at Edinboro University. All first Baccalaureate students will take at least 50% of credits required for the Major from a PAS SHE university. Edinboro University may require up to a maximum of 50% of the Major credits. Students seeking an associate degree must complete the last 30 credits in courses scheduled by the University.

It is possible for students at Edinboro University to take courses at other institutions for transfer to their programs at Edinboro. Students should go to the [www.patrac.org](http://www.patrac.org) (Pennsylvania Transfer and Articulation Center) website. Select "Course Equivalencies". Enter the appropriate college information. View the approved course equivalencies that will transfer to Edinboro University. We *strongly suggest* that students discuss their course selections with their advisor so as to insure they will fulfill degree requirements at Edinboro.

Undergraduate students may repeat failed course work at another institution. Students should utilize a transfer articulator such as the PA TRAC, which is found at [www.patrac.org](http://www.patrac.org) or the Edinboro University Transfer Articulator on the EU website. These transfer articulators will assist in course selections at a community college or another college/university for transfer back to EUP. We *strongly suggest* that students consult with their Academic Advisor or Dean prior to registering for classes.

Following completion of the coursework the student is instructed to have an official transcript sent to the Admissions Office. Transcripts are reviewed and, if the student earns a grade of "C-" or better, the credits are added to the academic record; and if the student is repeating failed coursework, then the failed course at Edinboro is coded so as not to impact the student's Edinboro University GPA.

## Post-Baccalaureate Teacher Certification Students

Students who already hold a bachelor's degree from Edinboro University, or from another college or university, who wish to earn the courses and credits necessary for teacher certification, may be admitted to the University on a non-degree basis. Official transcripts from all previously attended and current post-secondary institutions, and a non-Edinboro University alumni - \$30, Edinboro University alumni - \$7 non-refundable application fee, must be sent to the School of Graduate Studies and Research after completion of the online application available at [gradschool.edinboro.edu](http://gradschool.edinboro.edu). Post-baccalaureate teacher certification students will have their previous college transcripts reviewed by the Dean of the School of Education (or his/her designee) to determine the courses and credits necessary to earn certification. A program of study will then be outlined and forwarded to the applicant.

Further information concerning admission to teacher certification programs at Edinboro University should be directed to the School of Graduate Studies and Research.

### Policy Governing Transfer of Students Who Hold Associate Degrees Awarded by Publicly Supported Two-Year Colleges in Pennsylvania

1. Since the completion of an associate degree demonstrates a student’s motivation to complete a baccalaureate degree, preference for admission to state universities should be given to applicants who have completed said degree.
2. A transfer student who has completed a two-year degree program should normally expect to complete a baccalaureate program in two additional years. In certain specialized programs of the receiving institution a longer period may be necessary.
3. The “D” grade obtained by two-year college students should be treated by the senior institution in the same manner as the senior institution treats the “D” grades of its indigenous students.
4. Secondary school transcripts as well as test scores, should be considered as a guidance tool and not a determinant of transfer to the four-year institution. The awarding of the associate degree is considered to have satisfied the high school graduation requirements.

### Second Degree Students

Persons who have earned a degree from another institution of college rank should follow the admission procedures outlined above for transfer students.

Persons who have previously completed an earned undergraduate degree at Edinboro University should initiate admission procedures for a second degree with the Reinstatement Officer in the Office of Records and Registration. Persons who have earned a graduate degree at Edinboro University who now wish to enroll in undergraduate degree courses, should contact the Edinboro Undergraduate Admissions Office for enrollment information and procedures.

### International Admissions

#### General Information

The following steps are necessary for an international applicant to apply for admission to Edinboro University.

1. **APPLICATION FORM.** The application should be completed on-line. In order to process applications in a timely fashion, students should submit all requested information by **JUNE 1** for the fall semester and **OCTOBER 15** for the spring semester.
2. **TRANSCRIPTS.** All transcripts should be requested from secondary school(s) and forwarded directly from the school to the Admissions Office. These records must be translated to English and must demonstrate fulfillment of all graduation requirements, which would be the equivalent of the first 12 years of American education.
3. **ENGLISH LANGUAGE PROFICIENCY.** All applicants whose native language is not English should submit to the University proof of English proficiency. Acceptable proof of English proficiency include the Test of English as a Foreign Language (TOEFL), the International English Language Testing System (IELTS), Pearson Test of English, or STEP-EIKEN. English is an official language in many countries and is used by millions of people as a second language. Second language speakers of English are not necessarily fluent in Standard Academic English.
4. **OFFICIAL FINANCIAL STATEMENT.** The affidavit of support must be received from all students in order to issue a visa document to enter the United States. Edinboro University must be assured that students will have sufficient funds available to meet all tuition and living expenses. The affidavit of support, accompanied by the sponsor’s certified bank statement, should be submitted to the International Student Services Office.

5. **APPLICATION FEE.** An application fee of \$30.00 must accompany all applications. Payment can be made on-line.

**Form I-20 (F-1) or Form DS-2019 (J-1)** (for obtaining a visa) cannot be issued until the Admissions Office of Edinboro University has confirmed admission based on academic preparation, financial clearance, and English proficiency. At the time of admission to the University, students must submit a financial deposit via electronic transfer of funds prior to issuance of a Form I-20 or DS-2019

Upon enrollment, a report of medical history is required.

### Instructions for International Transfer Students

1. **CLASSIFICATION.** Students who have been enrolled in any college or university other than Edinboro since secondary school graduation, regardless of length of time attended, are classified as **transfer students**.
2. **TRANSCRIPTS.** a) Official secondary school transcripts **MUST** be submitted to the Admissions Office at Edinboro University. b) Students who have attended a college or university not located in the United States should have their foreign credentials evaluated by an accredited evaluation service. Applicants must have a “course by course” evaluation. For accredited foreign credential evaluators, please visit NACES (www.NACES.org). c) Students who have attended a college or university in the United States must have those official transcripts sent directly to the Admissions Office at Edinboro University.

**NOTE:** All documents submitted to the University on behalf of a student’s request for admission become the property of Edinboro University and cannot be returned.

## FEES AND EXPENSES

**Tuition and fees are likely to increase annually.**

### Basic Tuition Fees Per Academic Semester

	Pa. Resident	Non-Resident
<b>Undergraduate</b>		
Part-Time (1-11 sem. hrs.)	\$284.00	\$426.00
Full-Time (12-18 sem. hrs.)	\$3,410.00	\$5,115.00
Additional charge for each credit over 18 sem. hrs.	\$284.00	\$426.00
<b>Graduate</b>		
Per Credit Hour	\$454.00	\$681.00

### Basic Tuition Fees Per Summer Session

	Pa Resident	Non-Resident
<b>Undergraduate</b> (per sem. hr.)	\$284.00	\$426.00
<b>Graduate</b> (per sem. hr.)	\$454.00	\$681.00

### Tuition and Fees for Students Taking Graduate and Undergraduate Courses

Students at Edinboro University of Pennsylvania are permitted and, sometimes, required to take courses at both the graduate and undergraduate level.

The following policy was adopted in Fall 2011 to establish tuition and fee charges for students who take graduate and/or undergraduate coursework at the University during an academic period.

1. a) Undergraduate students will be billed for tuition and fees at the undergraduate level.  
b) Post baccalaureate students will be billed for tuition and fees at the graduate level.
2. a) A post baccalaureate student who is taking a combination of graduate and undergraduate coursework in a semester will be billed graduate tuition for undergraduate credits and graduate credits.

- b) An undergraduate student who is taking a combination of graduate and undergraduate coursework in a semester whose total credit hours is eighteen hours or less will be billed undergraduate tuition for undergraduate credits and graduate credits not to exceed the full-time undergraduate tuition and fee rates.
- 3. An undergraduate student taking a combination of undergraduate and graduate coursework whose sum of credit hours exceeds eighteen credit hours will be billed for additional tuition at undergraduate rates.

### Advanced Tuition Deposit

An advance tuition deposit of \$100.00 shall be paid by all new undergraduate students. This deposit is required when the student is approved for admission to the University. This is a guarantee of the intention of the applicant to register at the University for the term indicated on the admissions letter. The amount of \$100.00 is deposited with Edinboro University to the credit of the student’s basic fees.

Applicants who cancel their applications or fail to register following admission to the University after having paid the deposit will not receive a refund of the \$100.00 deposit or any part thereof.

### University Center Fee Per Academic Semester (Including Summer Sessions)

<b>Undergraduate</b>	
1-11 credit hours	\$22.00 per credit
12 or more credits	\$260.00
<b>Graduate-Per Credit Hour</b>	<b>\$29.00 per credit</b>

### Student Activity Fee Per Academic Semester

<b>Undergraduate</b>	
1-11 credits	\$17.00 per credit
12 or more credits	\$205.00

### Student Activity Fee Per Summer Session

<b>Undergraduate</b>	
1-11 credits	\$17.00 per credit
12 or more credits	\$205.00

### Student Success Fee Per Academic Semester

<b>Undergraduate</b>	\$30.00 per semester
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### Student Success Fee Per Summer Semester

<b>Undergraduate</b>	\$30.00 per session
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### Health Center Fee Per Academic Semester (Including Summer Sessions)

<b>Undergraduate</b>	
1-11 credits	\$12.50 per credit
12 or more sem. hrs.	\$150.00

### Instructional Technology Fee Per Academic Semester (Including Summer Sessions)

	<b>Pa Resident</b>	<b>Non-Resident</b>
<b>Undergraduate</b>		
1-11 credits	\$18.00 per credit	\$27.00
12 or more credits	\$211.00	\$321.00
<b>Graduate-per credit</b>	<b>\$24.00</b>	<b>\$36.00</b>

### Housing Per Academic Semester

(There is no difference between undergraduate and graduate housing fees.)

Double Room, per person (2 @ room)	\$2,835.00
Double Room, per night	\$27.00
Private Room (1 @ room)	\$4,135.00
Private Room, per night	\$39.00
Guest Room, per night single occupancy	\$27.00
Guest Room, per night double occupancy	\$39.00

### Highlands at Edinboro – Room Rates per Academic Semester

Semi-Suite – Double	\$3,315.00
Semi-Suite – Single	\$3,845.00
Suite – Double	\$3,950.00
Suite – Private	\$4,155.00
Single – Studio	\$4,695.00
Double – Studio	\$3,630.00

### Highlands at Edinboro – Housing for Summer Sessions (per week)

(There is no difference between undergraduate and graduate housing fees.)

Double Suite, per person	\$189.00
Single Suite, per person	\$273.00

### Meals for Summer Housing (per week)

Food, 14 meals	\$75.00
Food, 10 meals	\$68.00

### Housing Damage Fees

When a student signs up for housing, the resident agrees to pay for the actual cost of damages, breakage, loss or stolen property and other unnecessary costs caused by them. Damages or loss must be reported promptly to a resident life staff member. The resulting assessed amount shall be paid to the University in accordance with established billing procedures and schedule. Residents share in the responsibility for the condition of the common areas within their assigned residence hall and may be assessed fees for damage/theft to a residence hall floor/wing or other common area that cannot be attributed to a particular individual(s).

### Meals – Plans per Academic Semester

	Meal Plan	Flex Dollars	Total
Food, 19 meals – residence hall	\$1,286.00	\$350.00	\$1,636.00
Food, 19 meals – residence hall	\$1,286.00	\$150.00	\$1,436.00
Food, 14 meals – residence hall	\$1,121.00	\$350.00	\$1,471.00
Food, 14 meals – residence hall	\$1,121.00	\$150.00	\$1,271.00
Food, 10 meals – residence hall	\$1,020.00	\$350.00	\$1,370.00
Food, 10 meals – residence hall	\$1,020.00	\$150.00	\$1,170.00
Block Plan: 210 meals	\$1,387.00	\$350.00	\$1,737.00
210 meals	\$1,387.00	\$150.00	\$1,537.00
175 meals	\$1,176.00	\$350.00	\$1,526.00
175 meals	\$1,176.00	\$150.00	\$1,326.00
105 meals	\$825.00	\$350.00	\$1,175.00
105 meals	\$825.00	\$150.00	\$975.00
60 meals	\$483.00	\$350.00	\$833.00
60 meals	\$483.00	\$150.00	\$633.00
Flex meals only (off-campus & commuters)	\$100.00		\$100.00

### Application Fee

Undergraduate students applying for admission shall pay a \$30.00 fee to cover the cost of processing and admission. This initial application fee is not refundable and does not apply to other University charges. This fee is applicable for only a one-year period.



Graduate students applying for admission to the School of Graduate Studies, who had not previously paid an application fee to Edinboro University, are required to pay a \$30.00 application fee. Checks for this fee should be made payable to Edinboro University of Pennsylvania and should be submitted with the application or can be paid online with their online application.

### Correspondence Course Fee

Full standard fees are charged for correspondence courses.

### Course Audit Fee

Full standard tuition and fees are charged for course audits except for individuals age 62 or older who are on social security or equivalent retirement benefits.

### Credit by Competency Examination Fee

A flat administrative fee of \$25.00 per credit hour for each separate examination taken for credit is charged regardless of the number of credits.

### Late Registration Fee

A late registration fee will be charged for any undergraduate or graduate registration which occurs after the established registration date. The late registration fee is \$25.00. A \$100.00 late fee will also be charged for internships, practicum or graduation applications that are submitted after their published due date.

### Life Experience Credit Charges

Fees for evaluating student life experiences with the goal of granting academic credit are as follows:

Preliminary Application Fee	\$25.00
Evaluation Fee – One Department	\$100.00
Each Additional Evaluation	\$50.00
Life Experience Credit Hour Fee	\$25.00

### Medical Fees

There is no charge for in-patient care at the Ghering Health Center. Students who have not previously contracted with the University for meals are required to pay for meal service while they are confined in the Health Center. All fees are charged to the student accounts; no fees are collected at the Center.

Allergy injections	\$5.00
Medication	\$3.00 \$7.00 \$10.00
Crutches (deposit)	\$24.00
Physical Fee:	
Basic	\$25.00
Advanced	\$50.00
Immunizations	At cost \$15.00 - \$60.00
Women's Clinic Appointment	\$10.00
No Show Charge	\$15.00
Ghering Lab Tests	\$5.00 - \$30.00

The student is also responsible for the cost of a medication not stocked by the Health Center and obtained at a pharmacy by prescription written by the University physician.

### Miller Analogies Test Fee

A fee of \$75.00 is charged to students desiring to take the Miller Analogies Test. Checks should be made payable to Edinboro University of Pennsylvania.

### Waiver of Fees for Study Off Campus

Students who are taking all of their credit courses during a semester off campus (anywhere but the Edinboro, Meadville or Porreco campuses) will have the Health Center, Student Activity and University Center fees automatically waived for that semester. Students who are taking

credit courses on the Edinboro, Meadville or Porreco campuses during a semester must pay the Health Center, Student Activity and University Center fees pro-rated according to the number of credits in which the student is enrolled.

Students who are taking all of their credit courses during a semester off campus who choose to access the Health Center, University Center or Student Activity services and programs (for which they would not have been billed) may be assessed the full fee.

### Senior Citizen Tuition Waiver

All persons age 62 or over and on social security or equivalent retirement benefits who wish to enroll for credit in, or to audit an undergraduate or graduate credit-bearing course offered by Edinboro University of Pennsylvania will be given a full remission of tuition for classes which have available seats. Individuals interested in accessing this waiver must provide appropriate documentation to the coordinator of records in advance of registering for a course. Consideration for the waiver will be made once the documentation is received and it is verified that seats are available in the course, as determined by the University.

### Special Room and Meal Arrangements

The boarding fee is mandatory for all students who reside in university residence halls; however, students who live off-campus may also take their meals at the campus dining hall. Overnight room occupancy accommodations are available to current students (emergency housing) while guest rooms may be available for approved guests. The room charges are \$27.00 for single occupancy and \$39.00 for double occupancy.

### Sundry Charges

In addition to the aforementioned fees for undergraduate and graduate students, other charges include:

Application Fee	\$30.00
Applied Music Lesson Fee	\$100.00 per credit hour
Competency Examination	\$25.00 per credit hour
CLEP Fee	\$25.00
Computer Lab Printing	\$5.00
Duplicating (External/Internal)	.10/.04
Computer Lab Printing excess	\$5.00 per increment
Course Withdrawal Fee (after first week)	\$25.00 per course
Distance Learning Extended Time Penalty	\$25.00
Lost Key - single	\$20.00
Lost Key - master	\$50.00
Returned Checks	\$20.00
Library Fines	\$.15 per day + \$1.00
Orientation Fee	\$125.00
Payment Plan Semester Fee	\$40.00
Payment Plan Late Fee	\$15.00
Vehicle Registration - per year	\$35.00
Vehicle Registration - replacement	\$10.00
Parking Violations	\$30.00
Parking Violations Late Fee	\$10.00
Parking Violation – Handicap Parking Zone	\$100.00
Parking Violation – Blocking Emergency Device	\$50.00
Boot Removal	\$50.00
Moving Violation	\$75.00
Traffic Incident Report Requests	\$10.00
First Student Identification Card	\$5.00
Replacement Student Identification Card	\$10.00

### Transcripts

In accordance with Public Law 93-380 (Educational Amendments-Family Education Rights and Privacy Act, 1974) transcripts will be released when an individual orders one online by logging into "My

Edinboro” and accessing their S.C.O.T.S. account, for the issuance of an official transcript. If a student chooses to submit a written request, the student’s signature must accompany the request; therefore, telephone or email requests cannot be honored. Since graduate and undergraduate records are maintained separately, a student should clearly indicate his or her request is for an undergraduate or graduate transcript. The fee schedule for transcripts is as follows:

First request for transcripts	\$4.00
Second and subsequent requests for transcripts	\$4.00 each
Additional charges may apply for expedited service.	

Checks for transcripts should accompany the request and be payable to Edinboro University of Pennsylvania. No transcripts will be released if money is owed to the University.

### Instructional Service Fee

This fee is charged to undergraduate and graduate students during each session or semester of enrollment. It replaces the special course fee (representing over 100 courses), diploma fee, diploma handling fee, thesis binding, and van fee.

Undergraduate	10 percent of tuition
Graduate	15 percent of tuition
Program- specific: BSN in Innovative Nursing	25 percent of tuition

### Direct Deposit of Financial Aid Refunds

Edinboro University has a coordinated system of disbursing financial aid funds. All financial aid programs are administered by the University’s Financial Aid Office. Once funds are disbursed to pay tuition, fees, room and board, the Bursar Office will refund excess financial aid proceeds to the student.

As a convenience to students, the University can direct deposit financial aid refunds to the student’s bank account. You may designate any bank, savings and loan association, or credit union in the United States that is a member of the Federal Reserve System and accepts electronic funds transfer. Student refund direct deposit authorization forms are available on-line inside myEdinboro portal via the Direct Deposit link. Anyone not choosing direct deposit will continue to receive a university check for any excess funds via mail to their permanent address listed on their Scots account.

### Payment of the Course, Housing, Board, University Center Fee, Student Activity and Health Center Fees

University policy requires all charges to be paid prior to the start of the semester.

Full payment, or proof of awarded financial aid, is required to complete the registration process. The check or money order for these fees should be made payable to Edinboro University of Pennsylvania. Payments are accepted at the Bursar Office. Credit card and electronic check payments may be made online via eBill inside the myEdinboro portal.

Students receiving bank loans, such as Private, or Parent Loans, not already shown as an anticipated credit on their bill must provide written evidence of loan approval to the Bursar Office to receive recognition toward current invoice charges. Send copies of your loan approval, including the amount borrowed, with your invoice even if your current loan awards are greater than your charges.

Students who have External scholarships, military scholarships, or other types of student assistance resources must attach written evidence of such when returning their invoices in order to receive credit toward current semester charges.

Direct Student Loans require a completed Master Promissory Note (MPN) and Entrance Counseling including the borrower’s signature to credit the student’s account.

Students who do not pre-pay in-full by the billing due date by check, credit card or proof of financial aid will be automatically enrolled in the Semester Payment Plan and charged the non-refundable payment plan fee, at the discretion of the University. Failure to complete the payment process and/or provide written proof of bank loans or other financial assistance may result in a cancelled class schedule at the conclusion of the registration period.

eBilling is a web-based system on a secure internet site (accessed via the MyEdinboro portal). Students can allow eBill access to parents and third-parties using e-mail address (e.g., [myparent@yahoo.com](mailto:myparent@yahoo.com)), username, and passwords. Through this exciting technology, students can also choose payments by check (ACH) and credit card. For more information and answers to frequently asked questions, logon to ([www.edinboro.edu](http://www.edinboro.edu) keyword: *Bursar*).

### Delinquent Accounts

No student shall be enrolled, graduated, or granted a transcript of their records until all previous charges have been paid.

**ALL FEES AND REFUND POLICIES ARE SUBJECT TO CHANGE UPON APPROVAL OF THE COUNCIL OF TRUSTEES OR THE PENNSYLVANIA STATE SYSTEM OF HIGHER EDUCATION, AS APPROPRIATE.**

### Refund Policy

#### Intent

Edinboro University recognizes the occasional necessity for students to withdraw totally from course work for a variety of valid reasons. It further acknowledges that a fee refund policy must be reasonable and equitable for both the student and the University. The student, through registration, makes a financial commitment to the University upon which the University determines its expenditure patterns and obligations and thus no partial refunds as the University is unable to significantly reduce its costs if a student partially or totally withdraws. The refund policy includes a time-related schedule with a reasonable and equitable withdrawal refund deadline.

#### Policy

Refunded fees or account adjustments are automatically credited to student accounts. Unless the student submits a written request to the Bursar Office for a direct refund if they have a credit balance, the credit balance is carried forward for one year. Requests for refund which require exceptions to the refund policy will be forwarded by the vice president for finance and administration to the president or their designee for their consideration.

The new student application fee, semester payment plan fee, and new student advanced registration deposit are non-refundable. The official withdrawal date from room charges is based upon date of departure from the residence hall by removing all belongings and/or returning the room key or the official University withdrawal date, whichever is the latter.

- I. Total withdrawal from the University (All semesters/sessions)
  1. Prior to the first scheduled class meeting.

Students who totally withdraw from all classes prior to the meeting of their first scheduled class are entitled to a 100 percent refund of all fees (except for the new student application fee and the new student advanced tuition deposit) for the semester or session from which they are withdrawing.

2. Voluntary Total Withdrawal after first scheduled class meeting.

Students officially and totally withdrawing after the first class meeting may seek refunds for tuition, health center fee, University Center fee, instructional service fee, and student activity fee according to the following schedule:

Refund Period (% of Enrollment Period Completed)	Refund Percentage	Duration (Illustration of Estimated Weeks in Typical Semester)
0 - 8.50%	100%	Through “drop period” *
8.51 - 12.50%	80%	Through week 2 *
12.51 - 19.44%	60%	Through week 3 *
19.45 - 26.39%	50%	Through week 4 *
26.40 - 33.33%	40%	Through week 5 *
> 33.33%	0%	

\*Actual dates will be determined each semester/session by the University and published in the online scheduling book for that semester/session. Special start and end date program courses will be adjusted per the published pro-rate policy.

All adjustments will be credited to the student account using the official withdrawal date established by the Registrar with the exception of room charges (see policy above).

3. Involuntary withdrawal after first scheduled class meeting

Refunds are not available when a student has been suspended or expelled from the University for disciplinary reasons or for non-payment of fees or other financial reasons.

II. Other refunds (All semesters/sessions)

1. Room charges

Students officially totally withdrawing from the University may have refund adjustments posted to their accounts in accordance with the schedule below. Otherwise, the Housing Agreement cannot be broken by the student unless they have been formally released in writing by the University (Release fee of \$250 may apply; Refer to University Policy No. A058, Housing and Food Service Release.). The effective date of release from the residence hall will determine the refund percentage.

2. Food service charges

Students officially totally withdrawing from the University may have refund adjustments posted to their accounts in accordance with the schedule below. Otherwise, the Dining Services Agreement cannot be broken by the student unless they have been formally released in writing by the University. A refund of base meal fees (excluding flex and block plan balances) may be credited to the student’s account upon approval of a release. The effective date of release from the agreement will determine the refund percentage.

Unless specified elsewhere in the refund policy, unused flex account balances for the fall semester will carry over to the spring semester for students who renew their Food Service Agreements with the University; all remaining flex dollars will be forfeited at the end of the spring semester.

Refund Period (% of Enrollment Period Completed)	Refund Percentage	Duration (Illustration of Estimated Weeks in Typical Semester)
0 - 8.50%	90%	Through “drop period” *
8.51 - 12.50%	80%	Through week 2 *
12.51 - 19.44%	60%	Through week 3 *
19.45 - 26.39%	50%	Through week 4 *
26.40 - 33.33%	40%	Through week 5 *
> 33.33%	0%	

**Procedure**

Individuals desiring to withdraw from or drop all courses and leave the University, will be able to do so via the S.C.O.T.S. system located in the MyEdinboro Portal, during the first 10 weeks of the semester. Students are still encouraged to carefully consider such an important decision and its impact on their academic career and financial aid status and to consult with appropriate faculty or staff prior to submitting their withdrawal request on S.C.O.T.S. Students who withdraw from scheduled courses during the first 8 days of a semester, or an equivalent period during a session, will be permitted to drop their classes without academic penalty; no academic record will be kept for those courses. From the second through the tenth week, or an equivalent period in a session, students who withdraw from their classes will receive a W (withdrawal) on their academic record for the courses from which they withdrew. A request for an official withdrawal from any or all classes after ten week of the semester or equivalent period in a session will be reviewed by the Dean, and, if extenuating circumstances exist, the request may be approved. If approved, a student will receive a W (withdrawal) on their academic record. No withdrawals are permitted once the final exam period has begun. If a student officially withdraws from all courses and wishes to return to the University at a later date, the student must then apply for reinstatement through the Office of Records and Registration.

All requests for refunds must be submitted to the Bursar Office for processing to the vice president for finance and administration for approval. Requests for cash refunds must be in writing. Exceptions of appeal to the refund policy will be considered through written request to the Office of the President of the University or their designee.

**FINANCIAL AID PROGRAMS**

Edinboro University has a coordinated system of disbursing funds available for student financial aid. All financial aid programs are administered by the University’s Financial Aid Office. Further information regarding the programs described below is available from that office.

The primary goal of the Financial Aid Office is to provide appropriate financial resources for students to achieve their educational potential while ensuring compliance with the myriad of regulations, rules, policies and procedures from the various sources of financial aid. The University strives to meet the “financial need” of as many students from as many resources as possible.

Major funding sources are from the federal and state governments. For consideration for financial assistance students must complete the Free Application for Federal Student Aid (FAFSA). The preferred filing date is March 15 for the next academic year. Edinboro University’s school code for filing the FAFSA is **003321**. Students who complete the FAFSA will be considered for all aid for which they may qualify based on the available funds.

**Satisfactory Academic Progress (SAP)  
Policy for Financial Aid Recipients**

Edinboro University of Pennsylvania has developed standards of Satisfactory Academic Progress (SAP) in accordance with federal regulations. This policy measures quantity (number of credits completed), quality (cumulative grade point average), and maximum time frames for completion and measures progress incrementally. SAP will be reviewed after each payment period, (fall semester, spring semester, and the summer term).

The provisions of the policy apply to students seeking eligibility for Federal Title IV Aid (Federal Pell, Federal SEOG, Federal Perkins Loan, Federal Direct Stafford Subsidize and Unsubsidized Loans, Federal Work-Study, Federal Direct Plus, Federal TEACH Grant, and Federal Nursing Loans), and other programs, which require monitoring of academic progress. Note: Standards of satisfactory academic progress for the PHEAA State Grant is not the same as the federal standards.

For financial aid purposes, a student is considered to be making satisfactory academic progress if he/she meets the following criteria:

Note: The Satisfactory Academic Progress Policy for Financial Aid recipients is independent of “Academic Probation and Suspension.”

All undergraduate students are required to maintain a minimum cumulative grade point average of 2.00 or better and complete at least 67% of all attempted coursework which includes (F)ailures, (I)ncompletes, (W)ithdrawals, and (R)epet courses.

Students who have completed 180 credits and/or 12 semesters **with or without** the benefit of financial assistance are no longer eligible for financial aid. If it is determined that a student has met the requirements for his/her degree but did not apply for graduation, federal grant aid will not be awarded. All credits are counted as attempted credits after the end of the “add/drop period” for the purpose of determining progress for federal financial aid.

\* The number of semesters is based on an equivalency of full-time enrollment (e.g. a student enrolled in six (6) credit hours has an equivalency of .50 semester (6 credit hours/12 full-time credits hours = .50).

Any student who fails to meet SAP requirements will be placed on **financial aid warning** for one semester. If at the end of the warning period the student does not meet the requirements for SAP, all aid will be cancelled and the student is placed on **financial aid suspension. Students on financial aid suspension and are no longer eligible for federal financial aid (which includes student loans).**

Students who are on warning are encouraged to seek academic and/or personal counseling. Counseling services can provide the student with additional support, which **may** alleviate obstacles that hinder satisfactory academic progress. **Students on warning are further encouraged to consult with a financial aid counselor prior to withdrawing from any classes or if midterm grades are failures.**

## Reinstatement of Aid

Aid may be reinstated by meeting the requirements for SAP or by an approved appeal with an academic plan signed by the student’s academic advisor. If aid is reinstated, a probationary status will remain in effect. A period of non-enrollment does not reinstate aid eligibility.

## Appeals

Students who wish to appeal the suspension of financial aid eligibility based on mitigating circumstances (e.g. severe illness, death of close family member, severe injury, other factors relevant to student success) may do so by submitting a letter of appeal and supporting documentation to the Financial Aid Office within the first 2 weeks of the semester which is affected by the SAP status for which the appeal applies.

All appeals for reinstatement of aid must include:

A completed appeal form which identifies the reason for unsatisfactory progress and what has changed in order to better facilitate academic success.

Once this material is received and approved by the Financial Aid Office, an academic plan will be issued to the student. This academic plan will outline the number of credits and required term GPA in order to achieve SAP. This plan must be signed by the student as well as the academic advisor and must be received by the Financial Aid Office no later than the end of the 8<sup>th</sup> week of classes.

The Director of Financial Aid will notify the student of the decision to reinstate or deny aid. If the appeal is approved, the student must adhere to the signed academic plan and if the conditions are not satisfied,

students are placed on **Financial Aid Suspension/Aid Denied** without an opportunity to appeal and aid will be denied in all subsequent terms until the student can regain aid eligibility by reaching the required 67% completion rate and a 2.0 cumulative GPA.

The committee will not review incomplete and/or partial appeals. All documentation is retained by the Financial Aid Office for audit purposes.

## I. Grants

**Federal Pell Grant** - PELL Grants are a Federal aid program designed to provide financial assistance to those who need it to attend post-high school educational institutions. PELL Grants are intended to be the “floor” of a financial aid package and may be combined with other forms of aid in order to meet the full costs of education. The amount of the PELL Grant is determined on the basis of their and family’s financial resources.

The Federal Pell Grant is based on need as determined by the federal processor. It does not have to be repaid or earned. Awards range from \$602-\$5,730 for full-time students. Students enrolled less than full time will have their awards adjusted according to their enrollment status. The FAFSA must be completed and submitted to the federal processor for consideration.

**Federal Supplemental Educational Opportunity Grants (FSEOG)** Supplemental Educational Opportunity Grants are available to a limited number of undergraduate students with exceptional financial need and Pell eligible. Each year the Financial Aid Office defines who will be considered as students with exceptional need.

Degree-seeking students with exceptional need may receive Supplemental Educational Opportunity Grants. In order to assist as many students possible, grants range from \$200-\$1,000. Awards vary each year based on available funds.

The “Free Application for Federal Student Aid” (FAFSA) is required. The amount of financial assistance students may receive depends upon their need, the students and parents contributions (as noted from the results of the FAFSA), the amount received from other sources, the available funds, and the cost for attending Edinboro University.

## II. Scholarships

**Scholarships for Honors Students** - The Edinboro University Honors Program is designed to provide recognition and enriched learning opportunities for academically gifted students. The full scope and eligibility requirements for the program are outlined in the Academic Recognition and Honors section of the catalogue.

Entering freshmen with strong credentials who may be potential honors students are considered for the following scholarships: Diebold Alumni, Crowe Honors, Diebold, Dollars for Honors, Eberly Foundation, Forness Honors, GTE Honors, M.R. Kline Honors, Marquette Honors, McKinley Honors, Pogue Honors, President’s Honors, SGA Honors, USI Pres. Honors, Wood Smith Honors, BOG Honors, Edinboro University Honors, Porreco Honors. The James Hughes Scholarship and the All Pennsylvania Academic Team are additional academic scholarships though not administered by the Honors Office. Upperclassmen in the honors program may apply for Upperclassman Honors Scholarships which are awarded on a semester-by-semester basis.

Inquiries concerning the honors program should be addressed to the director of the Honors Program.

**Edinboro University Scholarships** - Edinboro University offers a wide variety of scholarships with different criteria. Scholarships are based upon scholastic achievement, major program of study, athletic

proWess, class rank, financial need or a combination of these criteria. Funds for the various scholarship areas are made available through donations by private industry, by faculty, staff and community contributions and through private endowments.

The financial aid office identifies eligible students based on the criteria and submits the list of eligible students to the selection committee. For some scholarships, students who meet the general criteria may be contacted for more information in the event there are criteria that are not stored on the database or if the scholarship requires an essay. A full listing of scholarships is available on the University's web site by typing in the keyword search "scholarship".

**US Army ROTC Scholarships** - There are significant scholarship opportunities for military science students. Scholarships pay up to full tuition, \$525 for books, and \$3,000 for spending money each year. *These scholarships are merit based and not affected by a parent's total income.* Freshmen and sophomores can apply for three- and two-year campus-based full scholarships in January. Historically, 85 percent of Edinboro University students who apply are scholarship winners. The Department of Military Science on an annual basis provides the ROTC students scholarships *in excess of \$25,000.*

Scholarship information is available on the Internet.

**External/Miscellaneous Scholarships** – The Financial Aid Office regularly receive scholarship information from external sources. Students who meet the criteria for these scholarships are sent an email announcing the scholarship, the criteria, deadline date, and contact information.

### III. Loans

**Federal Direct Stafford Loans** – The federal government provides two Stafford Loan programs. The Federal Direct Subsidized Stafford Loan program is based on the students' calculated unmet need, and academic level. The federal government will pay the interest for students who receive the subsidized Stafford loan while the student is enrolled at least half time. The Federal Unsubsidized Stafford Loan program is based on the amount needed to meet the student's cost of attendance budget (COA) and their academic level. Independent students and students whose parents are ineligible to borrow on behalf of the student may be eligible for additional unsubsidized Stafford loans. The student may opt to pay the interest while enrolled in school or have the interest capitalized (added to the principal). For both programs students are limited by the total aid received from all sources and their COA budget. Students must complete entrance counseling which explains their rights and responsibilities and a master promissory note before loans are disbursed. Stafford loans may have origination and/or rebate fees deducted from the loan amount. Interest rates are established yearly by the federal government,

#### Loan Limits Based on Academic Level

Academic Level	Maximum Subsidized Stafford Amount	Maximum Unsubsidized Stafford Amount	Additional Unsubsidized Stafford Amount
Freshmen (0-29 credits)	\$3500	\$2000	\$4000
Sophomore (30 – 59 credits)	\$4500	\$2000	\$4000
Junior (60 – 89 credits)	\$5500	\$2000	\$5000
Senior (90-120 credits)	\$5500	\$2000	\$5000
Graduates (enrolled in Grad program)			\$20500

Graduate students enrolled in the Teacher Certification program and not receiving a master's degree are subject to undergraduate loan limits of \$5,500 Subsidized Stafford and \$7,000 Unsubsidized

Stafford Loan limits. Graduate degree-seeking students who enroll in all undergraduate coursework for any given term, will have their awards adjusted to reflect undergraduate loan level.

**Federal Parent Loan for Undergraduate Students (PLUS)** – Parents of dependent students may borrow up to the cost of attendance less all other financial aid and available resources.

**Federal Graduate PLUS Loan** - Graduate and Professional students may also borrow under this program. All general requirements for the students apply.

**Federal Perkins Loan** - The Perkins Loan Program is awarded to students with exceptional need based using Edinboro's criteria and on completion of the FAFSA. Awards range between \$200 and \$5,500. The repayment period and the interest do not begin until nine months after the student in no longer enrolled at least half time. During repayment, loans bear interest at the rate of five percent a year, and repayment of the interest and principal may be extended over a 10-year period. There are a number of cancellations available to Federal Perkins Loan recipients based on certain types of employment and volunteer activities. Students are required to complete Entrance Counseling which explains their rights and responsibilities related to this loan. Students whose enrollment drops to less than half time status are required to complete exit counseling which serves as a reminder of rights and responsibilities for the loans received.

**Nursing Loans** - This program is intended to assist students to achieve careers in nursing by providing long-term, low-interest loans to help meet the costs of education. The maximum loan is \$2,500 for an academic year or the amount of financial need, whichever is less. A student may receive up to \$4000 in the last two years of study. The total amount of a student's loans for all years may not exceed \$13,000. Loans are interest free during the in-school period enrollments of at least half time.

Repayment may be made over a ten-year period which begins nine months after study has been terminated, and the minimum payment can be \$40. Five percent interest accrues during the repayment period. Payments may be deferred up to three years during military service, Peace Corps participation or periods of full-time advanced professional training in nursing.

**Sargent Emergency Student Loan Fund** - Emergency 30-day loans are available to Edinboro University undergraduate and graduate students. Original funds for this program were contributed in memory of Gray Norman and Nicholas Rock, former students, in memory of Dr. Harry Earley, former acting president, and Dr. L. H. Van Houten, former president of the College, and by the Alpha Phi Omega fraternity and by the Edinboro University Alumni Association. Three alumni donors, Mary Alice (Noxon) Sargent, Dr. Harold R. Sargent and Millard B. Sargent, have now commemorated the endowment. Application forms are available at the Office of Student Financial Support and Services. Awards may not exceed \$250 and students must be enrolled full-time.

### IV. Student Employment

The University offers student employment opportunities through three programs – Federal Work Study, Institutional Work Study, and Graduate Assistantships. All U.S. citizens and eligible citizens are required to complete the FAFSA to receive student employment. Students who receive student employment awards are not guaranteed a job. Students are required to actively engage in acquiring employment. Depending on the program students may work 12 – 20 hours per week at no less than minimum wage.

Federal Work Study (FWS) – The FWS program is a need-based employment opportunity and may be given priority hiring. Students generally work twelve (12) hours per week at minimum wage.

Institutional Work Study The institutional work study program is in most cases based on need or approved exceptions. Students generally work twelve (12) hours per week at minimum wage.

Graduate Assistantships (GA) are awarded by the Office of Graduate Studies. The number of hours is dependent on the appointment. The hourly rate is above minimum wage. In addition to the stipend, GAs receive a waiver of tuition proportioned to their appointment.

### Academic Year and Enrollment Requirements

Students are required to be enrolled in a degree or certificate program in order to be considered for Federal Title IV student aid including PELL and supplemental grants, Perkins and Stafford loans, and college work-study programs. Grants and loans are reduced proportionately for part-time students. State grants require half-time attendance or a minimum of six semester hour credits attempted each term. Student withdrawals from classes during the rebate period (first five weeks of the semester) will limit the full-time or part-time enrollment designation. Full withdrawal from all classes will result in restricted student aid program eligibility and the return of Title IV Aid as noted in the policy below. Withdrawing students should seek financial aid counseling.

### The Return of Title IV Funds Policy As Required By the U. S. Department Of Education

The Financial Aid Office is required by federal statute to recalculate federal financial aid eligibility for students who withdraw, drop out, are dismissed, or take a leave of absence prior to completing 60% of a payment period or term. The federal Title IV financial aid programs must be recalculated in these situations.

If a student leaves the institution prior to completing 60% of a payment period or term, the Financial Aid Office recalculates eligibility for Title IV funds. Recalculation is based on the percentage of earned aid using the following Federal Return of Title IV funds formula:

Percentage of payment period or term completed = the number of days completed up to the withdrawal date divided by the total days in the payment period or term. (Any break of five days or more is not counted as part of the days in the term.) This percentage is also the percentage of earned aid.

Funds are returned to the appropriate federal program based on the percentage of unearned aid using the following formula:

Aid to be returned = (100% of the aid that could be disbursed minus the percentage of earned aid) multiplied by the total amount of aid that could have been disbursed during the payment period or term.

If a student earned less aid than was disbursed, the institution would be required to return a portion of the funds and the student would be required to return a portion of the funds. Keep in mind that when Title IV funds are returned, the student borrower may owe a debit balance to the institution.

If a student earned more aid than was disbursed to him/her, the institution would owe the student a post-withdrawal disbursement which must be paid within 120 days of the student's withdrawal.

The institution must return the amount of Title IV funds for which it is responsible no later than 45 days after the date of the determination of the date of the student's withdrawal.

Refunds are allocated in the following order:

- Unsubsidized Direct Stafford Loans (other than PLUS loans)
- Subsidized Direct Stafford Loans
- Federal Perkins Loans
- Direct PLUS Loans
- Federal Pell Grants for which a Return of funds is required
- Federal Supplemental Opportunity Grants for which a Return of funds is required
- Other assistance under this Title for which a Return of funds is required (e.g., TEACH Grants, Iraq and Afghanistan Grant, LEAP)

## University Policy Manual

Students need to be aware that the University Policy Manual is available for inspection in the following areas: Baron-Forness Library (on reserve); Office of the Provost and Vice President for Academic Affairs, Reeder Hall; Office of Records and Registration, Hamilton Hall. Additionally, the policy manual may be found on the University's website at [www.edinboro.edu](http://www.edinboro.edu). Students should become familiar with those policies and procedures which will affect them during their time at Edinboro University.

Policy #	Policy Name
A001	Alcoholic Beverages
A002	Confidentiality and Privacy of Student Records
A003	University Related Advisorship
A004	Earning Course Credit by Examination or Evaluation
A005	University Procedures for Responding to Off-Campus Student Behavior Complaints
A007	Student Activity Fee Adjustment
A008	Reasonable Accommodations for Students with Disabilities
A009	Graduation Requirements
A011	SGA Restricted Accounts
A012	Disciplinary Procedures and Student Code of Conduct
A013	Residence Hall Use by Students During Vacation and Selected Periods of Non Attendance
A014	Change of Major
A015	Satisfactory/Unsatisfactory Grades
A016	Student Trustee Selection
A017	Transfer Student Prior Conduct Review
A018	Self Medication
A019	Transfer Standards
A020	Student Organization Activities
A021	Student Entry and Retention in Teacher Education
A022	Repeating Courses
A023	Academic Warning, Probation, and Suspension
A024	University Recognition of Student Organizations
A025	Student Organization Advisors
A026	Campus Residency Requirements
A027	Housing Deposit for Residence Hall Students
A028	Undergraduate Degree Completion
A029	Death of a Student
A030	Fresh Start
A031	Academic Reinstatement
A032	Admissions
A033	Insurance for Resident Students' Possessions
A034	Dean's List Requirements
A036	Disruptive Behavior in Supervised Situations
A039	Student Name Change
A041	Auditing of Courses
A042	Student Withdrawals from the University
A044	Student Activity Contracts
A045	Anti Hazing
A047	Time Limitations on Meeting Master's Degree Requirements

A048	Student Teacher Reassignment in the Event of a Work Stoppage
A050	Transfer of Graduate Credit
A051	Trial Admissions Program
A052	Awarding Continuing Education Units
A053	Student Fund Raising
A057	Student Appeal of Assigned Grade
A058	Housing and Food Service Request Release
A059	Student Victims of Sexual Assault
A061	Transcripts
A062	Class Attendance
A063	Inactive Courses
A064	Dual Numbering of Courses
A065	Student Vandalism of University Property
A067	Visiting Student Program
A072	Semester Credit Hour
D046	University Center

### **University Procedures**

Seriously Disruptive Behavior  
STD Prevention and Control

## **STUDENT AFFAIRS**

The Division of Student Affairs fosters opportunities to engage students in an environment conducive to lifelong learning. Our people-centered approach promotes learning, social interaction and personal growth in a multicultural world. We are committed to developing empowered and responsible students in their progression towards graduation and global citizenship.

### **Student Health Services**

The University is genuinely concerned that students remain in their maximum state of health and wellness. Student Health Services is available to provide health care and health education for students. The mission of the Student Health Services is to provide the highest quality of episodic patient care, to support and enhance education and increase retention by modifying or removing health-related barriers to learning and by promoting optimal wellness. Health is viewed as more than the absence of illness; it is a positive state of full functioning in relation to one's capacities. Student Health Services is staffed by licensed family physicians, a certified registered nurse practitioner, and registered nurses. In 2013 the Student Health Services was re-accredited by the Accreditation Association for Ambulatory Health Care for a three year term. This distinction is shared by only ten student health centers in the state of Pennsylvania. The goal of the staff is to promote wellness, healthier lifestyles, provide health education, increase health consumer awareness, and encourage self-care responsibilities. A wide referral base is maintained for any expertise needed to treat the student. Ambulance service is available from the local community fire department and is utilized at the student's own expense or his/her insurance carrier. Extreme confidentiality is maintained and information will not be released without the student's written permission. Students are encouraged to have open communications with their family or significant other. Short-term observation is available if the staff feels it would be appropriate. A sample of services available at the Health Center include: illness and injury diagnosis and treatment TB testing, allergy injections, physicals, STD testing, pap tests, birth control, immunizations, domestic violence counseling, HIV/AIDS counseling and testing, drug and alcohol counseling, sexual assault counseling, educational programs, weight management, eating concerns, nutrition, stress management, and sexual health. For additional information, please call to schedule an appointment with our professional staff at 814-732-2743.

## **Counseling and Psychological Services**

Counseling and Psychological Services (CAPS) is part of the University's comprehensive student health program. It is centrally located on campus and is accessible to all students.

CAPS is committed to the enhancement of the potential of all students by helping them to address and resolve concerns that may interfere with their academic progress, psychological health, personal effectiveness, and satisfaction with student life. Through the provision of high quality psychological services and educational programs that apply knowledge and principles derived from the social and behavioral sciences, CAPS assists all students to obtain the most benefit from their educational experiences.

CAPS provides services to students on a short-term basis with a focus on facilitating personal and academic growth. The faculty includes psychologists and mental health professionals who provide counseling for personal, social, and emotional concerns, as well as brief psychotherapy, crisis intervention, group programs, personal development opportunities, consultations, psychological assessment, and referrals. A listing of the personal development and group programs being offered is available from CAPS. The Wellness Peer Educator program is coordinated by this office.

Hours are 9:00 a.m.-5:00 p.m., Monday through Friday, during each semester, except when the University is officially closed or classes are not scheduled to meet. Appointments are requested and can be made by phone or in person. At times there may be a waiting list to initiate services, except for emergencies. All services provided are held strictly confidential, and require payment of the Health and Wellness fee. For additional information, call 814-732-2252 or visit us at [www.edinboro.edu](http://www.edinboro.edu), search: CAPS.

### **Student Government Association**

The Student Government Association (SGA) office is located in the Frank G. Pogue Student Center. SGA is the official representative body of the students of Edinboro University. SGA responds to various student interests and concerns in order to enhance the quality life for Edinboro University students. SGA officially recognizes student organizations for funding and allocates an annual budget to the various organizations on campus. SGA also sponsors campus-wide programs and activities with funds collected from the Student Activity Fee.

SGA members have many opportunities to enhance leadership skills through participation in weekly congress meetings, serving on a variety of committees, and attending various leadership conferences. Congress applications are accepted at the beginning of each semester. A Congress member serves a term of two semesters.

SGA also operates a convenience store in the Pogue Student Center and provides a shuttle service for on and off campus transportation needs. All students are encouraged to learn about and participate in their Student Government Association. We welcome you to attend our weekly meetings held every Monday at 6:00 pm in the Pogue Student Center.

### **Frank G. Pogue Student Center Information Desk**

The mission of the Frank G. Pogue Student Center is to serve as the "family room" for the Edinboro Community. We are dedicated to providing and fostering life-long learning opportunities for our community through a broad array of services, facilities, and programs of an educational, multicultural, and recreational nature. The Pogue Student Center information desk is located on the first floor lobby of the Pogue Student Center. This area provides an information exchange for faculty, staff, students and the general university community. The information desk is staffed during all normal operating hours of the building. The telephone number is 814-732-2842. Information that can be obtained at the information desk includes:

University and student organization meeting information  
 Phone numbers for offices, faculty and staff  
 Frequently requested local phone numbers  
 Events and activities information  
 Other general University information

## Student Organizations

Adapted Intramural and Recreational Sports (A.I.R.S.)  
 AFRICA (Alliance for Racial Identity and Cultural Acceptance)  
 African African Student Association  
 Agent Provocateur Magazine  
 AIDS Awareness  
 Alcohol Awareness  
 Alpha Chi  
 Alpha Gamma Delta  
 Alpha Kappa Lambda  
 Alpha Phi Omega  
 Alpha Phi Sigma  
 Alpha Psi Omega  
 Alpha Sigma Alpha  
 Alpha Sigma Lambda  
 Alpha Sigma Tau  
 Alternative Film Festival  
 Amateur Radio Club of Edinboro University  
 American Sign Language Club  
 Animation Club  
 Anthropology Club  
 Art Education Club  
 Art History Club  
 Asian Club  
 Astronomy/Planetarium Club  
 Beta Beta Beta  
 BORO Association for the Education of Young Children  
 Brothers and Sisters United  
 Bruce Gallery  
 Business and Accounting Club  
 Business Club of Edinboro  
 Campus Crusade for Christ  
 Center for Outdoor Recreational Experience (C.O.R.E.)  
 Chess Club  
 Chi Alpha Christian Fellowship  
 Chi Alpha Epsilon Honor Society  
 Chi Sigma Iota  
 Chimera  
 Christ for Life  
 Circle K Club  
 Clay Club  
 Commuter Club  
 Company  
 Computer Science Club  
 Council for Exceptional Children  
 Counseling Club  
 Criminal Justice Club  
 Cultural Affairs  
 Definition Hip Hop Dance Team  
 Delta Alpha Pi – Beta Chapter  
 Delta Mu Delta  
 Delta Zeta  
 Diversity Funding Board  
 Dramatic Activities  
 Drawing and Painting Club  
 Edinboro Airsoft Club  
 Edinboro Ballroom Dance Club  
 Edinboro Choral Ensemble  
 Edinboro College Democrats  
 Edinboro Drum Club  
 Edinboro Equestrian Team  
 Edinboro Film Series  
 Edinboro Gaming Guild  
 Edinboro Literary Club  
 Edinboro NERF Club  
 Edinboro Political Awareness Club  
 Edinboro ROTC Student Organization  
 Edinboro Student Craving Anime (ESCA)  
 Edinboro Theatre for Young Audiences  
 Edinboro University of Pa. Cheerleaders  
 Edinboro University College Republicans  
 Edinboro University Community Outreach Center  
 Edinboro University of PA Feminist Majority Leadership Alliance  
 Edinboro University of PA Martial Arts Club  
 Edinboro University Student Philanthropy Council  
 Emergency Service Organization  
 English and Humanities Club  
 EUP Flying Scots Quidditch Club  
 EUP Game Dev. Club  
 EUP Jiu Jitsu Club  
 EUP Sculpture Club  
 E-TV (Edinboro television)  
 Exercise Science Club  
 Family Weekend  
 Fencing Club  
 Film Club  
 Future Elementary Educators  
 Future Secondary Educators Organization of Edinboro University  
 of Pennsylvania  
 Golden Key International Honour Society  
 Golf Team  
 Graduate Art Association  
 Graduate Professional Development Program  
 Graduate Social Work Association  
 Graduate Student Council (GSC)  
 Graphics Design Club  
 Health and Physical Education's Major Club  
 Habitat for Humanity Club of Edinboro University  
 Highland Ambassadors  
 Highland Games  
 Highlander Archery Club of Edinboro University  
 History Club  
 Homecoming  
 Ice Hockey Team  
 Identity  
 Inter Fraternity Council  
 International Students Affiliation  
 Iota, Iota, Iota (Women's Studies Honor Society)  
 Kappa Alpha Psi  
 Kappa Delta Pi  
 Kappa Delta Rho  
 Karate Club  
 Lambda Chi Alpha  
 Lambda Pi Eta  
 Latin American Studies Association  
 Latino Student Organization  
 Leadership Edinboro  
 Marathon Club  
 Metals Club  
 Minority Mentoring Club  
 Model NATO  
 Music Education National Conference (MENC)  
 Muslim Student Affiliation  
 National Association of Science Teachers  
 National Council of Teachers of English and Language Arts  
 National Pan Hellenic Council



Newman Student Association  
 Office of Performing Arts  
 Omega Psi Phi  
 Order of Omega  
 Panhellenic Council  
 Peer Tutors Association  
 Phi Alpha Social Work (Honor Society)  
 Phi Alpha Theta  
 Phi Epsilon Kappa  
 Phi Kappa Psi  
 Phi Mu Alpha (SINFONIA Men's Music Fraternity)  
 Phi Sigma Iota International Foreign Language Honor Society  
 Phi Sigma Pi (National Honor Fraternity)  
 Philosophy Club  
 Photo Club  
 Physics & Engineering Club/Sigma Pi Sigma  
 Pi Mu Epsilon  
 Pre-law Society  
 Progressive Organization for Women's Equality and Rights  
 Psychology Club  
 Public Relations Student Society of America (PRSSA)  
 R.W. Bunsen Society  
 Reaching Out for Christ's Kingdom  
 Recreational Sports (formerly Intramurals)  
 Residence Hall Association  
 Rho Lambda  
 Rifle Club  
 Robert C. Weber Honors Program  
 School Psychology Club (Graduate Club)  
 Sexual Violence Victim Advocate Program  
 Sigma Alpha Iota  
 Sigma Gamma Epsilon (Earth Science Honor)  
 Sigma Lambda Honors Society  
 Sigma Pi Epsilon Delta  
 Sigma Sigma Sigma  
 Sigma Tau Delta (International English Honor Society)  
 SnowFest  
 Social Work Club  
 Soccer Club  
 Sociology Club  
 Spectator (campus newspaper)  
 Speech and Hearing Club  
 Student Art League  
 Student Community Outreach Through Service (SCOTS)  
 Student Concert Series  
 Student Dietetic Club  
 Student Government Association  
 Student Nurses Organization of Edinboro (SNOE)  
 Student Pennsylvania State Education Association (SPSEA)  
 Students Interested in Expanding their Horizons (SIXTH)  
 Students of Edinboro for Environmental Defense (SEED)  
 Tau Kappa Epsilon  
 The Church at Edinboro  
 The Edinboro Writer's Organization  
 Theatre for Young Audiences  
 Theta Chi  
 Ultimate Frisbee  
 United Nations  
 United Voices of Edinboro  
 University Players  
 University Programming Board  
 University Programming Board (UPB)  
 Vietnamese Student Organization  
 Volleyball Club  
 Welcome Week  
 WFSE (campus radio)

Women's History Month  
 Women's Self Defense Club  
 Wood Furniture Club  
 Writing Center Boosters  
 Zeta Tau Alpha

The above list is subject to change. New student organizations and groups, when approved, are added to the list.

## Student Judicial Affairs

Standards of scholarship and conduct are established to maintain order, to provide for the safety and wellbeing of all members of the University community, to support a positive living and learning environment, and to uphold the good name of the University. Students are held accountable for their actions and are encouraged to act as positively contributing members of the University community. Consistent with the educational mission of the University, appropriate efforts are made to foster personal and social development. The Office of Student Judicial Affairs provides the due process through which allegations of misconduct are adjudicated. Copies of the Student Code of Conduct and Judicial Procedures are available at the Office of Student Judicial Affairs in McNerney Hall and on the University website.

## Volunteer Service

Volunteer Services is located in the Campus Life Office. Over the years, Edinboro University of Pennsylvania students have contributed thousands of dollars and hundreds of service hours to northwest Pennsylvania. Community service and volunteer work are expectations of students at Edinboro University. The Campus Life Office has established a means for students to have opportunities to get involved in community service projects. If students wish, they can document their volunteer work on-line on the Campus Life website. This is one more way the University, students, clubs, and the community work together to create a more positive living/learning environment for the greater Edinboro area. Their service hours can be provided on a transcript, at no charge, to the student for graduate school applications.

## Campus Life

The Campus Life Office serves as a Campus Programming Center for University clubs and organizations, ROTC/Military Science, Recreational Sports, Club Sports, University Programming Board, Homecoming Activities, Greek Life, The Pogue Student Center, Multicultural Programs, and Leadership Development. We host a number of events throughout the year that are planned and coordinated by students, for students. The University Programming Board is the central event planning group for the campus. This student-run committee provides entertainment and activities for all students. The purpose of these events is to enhance the educational, cultural, social, and recreational aspects of the university experience. Activities include speakers, comedians, recreation, and a wide variety of other events that are free to students. The University Programming Board also oversees the Student Concert Committee, Homecoming Committee, Welcome Week Committee, and SnowFest Committee.

We strive to give students and clubs the autonomy to host their own events, while imparting leadership opportunities for students to become campus leaders. The office works in constant communication with the Student Government Association and University advisors for the advancement of the student body.

Campus Life also offers many multicultural programs and resources to our students. We are charged with creating a climate that is sensitive to the needs of its diverse population. The office achieves these objectives by designing and sponsoring programs that lead to an increased understanding of diversity and by providing opportunities to learn, work, and live in a harmonious environment that is free of discrimination.

We support activities of various student organizations including but not limited to the Alliance for Racial Identity and Cultural Acceptance (A.F.R.I.C.A.), Identity, International Students Affiliation, Iota Iota, Iota, Latino Student Organization, Brothers and Sisters United, all National Pan-Hellenic Council organizations, and United Voices of Edinboro. These organizations are established to celebrate cultural diversity and to provide support for the special needs of underrepresented students. Participation on the groups' activities is open to all students who are interested.

Our office seeks to identify and eliminate barriers to an equitable and diverse environment. We serve as a catalyst in assisting the Edinboro community in creating a climate that promotes civility, respect, and sensitivity. Our goal is for all students, faculty, and staff to obtain understanding and foster awareness of different cultures, languages, and peoples.

Our office offers a variety of resources and programming that enhance college life and celebrate individual differences. We provide leadership opportunities that foster personal and professional development while coordinating multicultural initiatives. We encourage acceptance and appreciation of cultural differences where everyone is welcomed and supported.

### Greek Affairs

Fraternities and sororities offer students the opportunity for leadership, service, academics, and lifelong friendships. Greek membership carries with it many immediate benefits, including leadership opportunities, academic support, and an emphasis on community service; this has been the basis of Greekdom since its founding over 150 years ago. Greek life at Edinboro University has offered men and women these traditions for more than 40 years.

Joining a Greek organization is an excellent way to get involved. Besides making great friendships that will last a lifetime, students will gain valuable leadership skills and give back to others through community service.

### Recognized Greek Organizations

Fraternities	Sororities
Alpha Phi Alpha	Alpha Gamma Delta
Alpha Kappa Lambda	Alpha Sigma Alpha
Kappa Delta Rho	Alpha Sigma Tau
Lambda Chi Alpha	Delta Zeta
Phi Kappa Psi	Sigma Alpha Iota
Phi Mu Alpha	Sigma Sigma Sigma
Theta Chi	Zeta Tau Alpha

### Wheelchair Basketball Program

Edinboro University offers a unique opportunity for students with disabilities. The Wheelchair Basketball program offers students with disabilities the opportunity to compete in intercollegiate wheelchair basketball.

### Fitness Center

The Fitness Center, located in the Pogue Student Center, is a space that will suit nearly anyone's fitness needs. With name brand equipment such as Life Fitness, Nautilus, and Matrix, you will be able to fulfill your fitness goals. Two Aerobics Studios allow the opportunity to provide a variety of fitness classes, as well as space for Open Recreation. Our Elevated Track, which spans 1/14 of a mile, also overlooks the lake. Two gymnasiums allow for a variety of activities, and provide a lot of space for open recreation as well as the ability to reserve a gym for a group or organization.

In close proximity are our locker rooms. Both men's and women's locker rooms feature a steam room and sauna, as well as locker, shower, and toilet areas. And don't forget about our two racquetball courts, extra cardio room, and climbing gym! In addition, the Fitness Center also provides an area where students can check out a variety of sports balls and equipment.

### Recreational Sports

Looking to participate in a structured recreational sports activity? Boro Rec Sports offers a host of co-ed, men's and women's leagues year round for both individual and team sports including basketball, flag football, soccer, tennis, floor hockey, volleyball, racquetball, softball, table tennis and more. [Log onto www.imleagues/edinboro](http://www.imleagues/edinboro) for more information!

### Campus Outdoor Recreational Experience (CORE)

The Campus Outdoor Recreational Experience provides the campus community with additional outlets for the expenditure of leisure time. Outdoor recreational trips complete with equipment rentals include white water rafting, skydiving, caving, mountain biking, hiking, camping, canoeing, paintball, the [spring break adventure trip](#), alpine and cross country skiing, [rock climbing](#), snowshoeing, and snowboarding. [These programs are structured for any level of adventure. No experience necessary!](#) Stop by our office in the climbing gym in the Pogue Student Center for more trip information or to rent any of our outdoor equipment. Our rentals include everything from bikes and roller blades to tents and cornhole boards. Come join the experience!

Interested in developing your leadership and team building? Stop into the CORE office to schedule you and your friends for a day at the ropes course. Students can have programs designed specifically for them in the areas of communication, team building, organization and more! Interested students can participate in a variety of high and low ropes obstacles, including our leap of faith, whale watch, zip line and giant swing, just to name a few! Stop by the climbing gym for more information on this great opportunity!

### Club Sports

Club Sports offer students the opportunity to continue or start involvement in an organized athletic program. They also help provide students with a well-rounded educational experience through physical, social and leadership development. Teams typically compete against local and regional colleges and universities in organized leagues and associations. Some teams even travel outside of the region to compete. Club Sports which are competitive, instructional, and recreational in nature are also unique in the very fact that they are initiated, organized, managed, and funded by students. Through this format, participating students have the opportunity to acquire skills such as leadership, organization, management, and fiscal responsibility. For a complete listing of the club sports please go to [www.edinboro.edu](http://www.edinboro.edu); keyword: Club Sport. If you are interested in starting a club sport that currently does not exist, please contact Dave Goodwill at [dgoodwill@edinboro.edu](mailto:dgoodwill@edinboro.edu) for more information.

Through this format, participating students have the opportunity to acquire skills such as leadership, organization, management, and fiscal responsibility.

### Athletics

Recognized as one of the top programs in the Pennsylvania State Athletic Conference, Athletics continues to promote excellence in and out of the classroom.

Offering 17 intercollegiate sports, seven men's and ten women's, wheelchair basketball and cheerleading, the University has established a rich tradition with its ongoing accomplishments in the arena of collegiate athletics. The foundation of the athletic success is an

experienced and knowledgeable staff, consisting of professional coaches and support personnel who have combined to serve Edinboro University for 300 years. Many of the coaches are recognized annually for their statewide and national success.

Athletic scholarships are awarded to deserving student-athletes with aid determined by each individual sport coach.

Overall, it is the goal of the University to provide the best quality educational and athletic experience possible for its student-athletes. The program has also enjoyed success in the classroom with numerous student-athletes earning Academic All-American honors. The department annually recognizes its scholar-athletes at a recognition banquet for those students who have earned a cumulative grade point average of 3.0 or better during their careers. Generally over 40 percent of all student-athletes meet this criterion.

Edinboro has enjoyed unprecedented individual and team success in recent years, and this past year was no exception. Seven teams competed in their respective NCAA championships, including women's soccer; men's and women's cross country, women's swimming, women's indoor track and field, women's basketball and wrestling.

The University offers varsity competition in the following 17 NCAA varsity sports: **men's** basketball, cross country, football, swimming, tennis, track and field, wrestling; **women's** basketball, cross country, soccer, softball, swimming, indoor and outdoor track and field, tennis and volleyball. Edinboro University also sponsors coed wheelchair basketball and cheerleading.

The University's athletic facilities have seen huge makeovers in recent years. Most notable is the Mike S. Zafirovski Sports & Recreation Dome, a \$5 million air-supported structure which opened in the fall of 2009. The Zafirovski Dome has served as the host of the PSAC Indoor Track & Field Championships the last three years, with the facility receiving rave reviews.

Sox Harrison Stadium, home of the football, women's soccer and women's lacrosse teams, had SportEx, an artificial surface, along with the addition of lights. The facility's track and tennis courts were also resurfaced.

McComb Fieldhouse, the largest on-campus arena in northwestern Pennsylvania, has also seen extensive renovation. The basketball court was refinished, the lobby updated, the weight room and aerobics center were all enhanced. The facility has also undergone improvements in locker rooms in recent years.

All students with valid IDs are permitted free of charge to all University regular season athletic events.

## Veterans Success Center

The mission of the Veterans Success Center is to provide military veterans, current service members, and their dependents with access to an affordable, high quality education through comprehensive support services to meet their individualized and diverse needs. The Veterans Success Center offers extended hours, a lounge, computers, homework space, and access to University and community resources to ensure that our student veterans have everything they need while pursuing their academic career. The Edinboro Student Veterans Association (SVA) meets regularly at the Veterans Success Center, and is very active in community service projects.

The Veterans Success Center handles all GI Bill and VA educational benefits, and can help guide veterans through the transition from military to college. Veterans who are considering attending Edinboro University are encouraged to contact the Veterans Success Center.

## Residence Life and Housing

Edinboro University offers a blend of contemporary housing in suites as well as traditional residence hall communities. Edinboro is proud of our residential communities that offer students more privacy in their living options while remaining in close proximity to classes, the student center, dining area, and all of the campus athletic venues. The Highlands at Edinboro University is among the most energy efficient residence halls in the nation, using geothermal energy technology for its climate control systems; it has been designated as a silver LEED project. Both The Highlands and traditional housing offer convenience and commitment from the university community to promote student success. In all residence hall rooms each student has individual furnishings that include a bed, dresser, desk, desk chair and wardrobe/closet. High-speed Internet access, network access, and digital cable television services are included. All residence halls feature common lounges with wireless access, recreation areas, television lounges, vending/snack equipment and coin operated laundry facilities.

Students will see and hear the phrase "BORO Living", or in long form "Building Opportunities for Residents On-campus." The mission of Residence Life and Housing is to provide quality residential services that complement the mission of the University by encouraging civility, personal development and student success. This is achieved by offering a just and caring community for everyone. The Residence Life and Housing staff is available to assist new students in making the transition from home to life on campus and to assist students in developing knowledge and skills that will give them a foundation for achieving excellence within and outside of the classroom. The residence hall staff provides activities and opportunities for students to become involved in campus life and community activities. Professional Area Coordinators are assisted by graduate Residence Hall Coordinators and undergraduate Resident Assistants in the operation of each community. The Residence Life and Housing website has suggestions for things to bring to campus, suggestions for a positive roommate relationship, and assists you in choosing the best residence hall community for you. Overall our website has a wealth of information to assist you along the way. Don't ever hesitate to e-mail or call our office if you can't find an answer to your question.

Students are encouraged to reside on campus throughout their college career. Living on-campus provides connection to students and faculty, convenience, and comfort. First-year students must reside on campus unless they are under the age of 21 and commute from the home of a parent or legal guardian. Students are required to reside in on-campus housing for two consecutive semesters (summer sessions excluded). All residents are required to participate in a meal plan. Students sign a Housing and Food Service Agreement for one academic year. Prior to seeking off-campus housing, students are encouraged to be certain that they don't have an obligation to live on campus, or you may find yourself holding two leases. Edinboro University makes every attempt to honor building and roommate preferences; however, it maintains the right to make housing assignments for the overall benefit of the students and the institution.

Safety and security are among our top concerns. Students living on-campus will reside in facilities have smoke and heat detection systems and sprinklers throughout the facilities. In addition, card access systems are available in all of the living units. Beyond the equipment that is available, the halls are staffed by well trained professional students and employees who work to maintain a safe and secure environment. Safety education is on-going in the hall communities. In addition, the university police and fire safety officer participate in staff and student education programs and routinely may be found in the residence halls.

## Center for Career Development

The center for Career Development offers a variety of services to undergraduate and graduate students, alumni, and prospective students. Students can meet with professional staff to obtain help with clarifying goals, interests, strengths and weaknesses in relation to choosing a major and planning their career path. In addition to providing counseling and assessment, the center also assists students with resume writing, interviewing, and job searching. The Center for Career Development also delivers workshops to classes and student clubs and organizations on a variety of topics such as career development and planning, resume writing, interviewing, and job searching. Students are encouraged to visit the center early and often.

## The Office of Adult Student Services

This office provides special services to assist the adult student. Adult students are usually beyond the age of traditional undergraduate students who enter the University directly after graduation from high school. They generally have major obligations beyond those of college work, such as full-time employment and/or a household and children for which they are responsible. Services include priority scheduling and oversight of the accelerated means of earning credits option.

The Office of Adult Student Services serves as a resource for both prospective and current adult students.

## International Student Services

International Student Services based on our commitment to diversity. The office assists students from around the world from the time of admission until graduation by processing immigration paperwork, providing support with cultural adjustment, and liaising with other campus offices and the Edinboro community.

Students are welcomed from around the World. Students interested in applying for admission can learn more by visiting the International Student Services website at: [www.edinboro.edu/departments/international/main.dot](http://www.edinboro.edu/departments/international/main.dot)

## Study Abroad

Studying abroad is an incredible opportunity and Edinboro University encourages students to explore such an opportunity. A study abroad experience can be short-term (two to ten weeks) or for a semester or an academic year.

Edinboro University offers short-term, for-credit, study abroad programs at various sites around the globe for all students. Programs are offered in the summer and throughout the academic year. The sites and courses taught change annually. In the past, programs have been offered in England, Scotland, Poland, China, Mexico, and South Africa/Botswana.

Getting started is easy! Study Abroad 101 sessions are offered during the academic year and provide students with a basic overview of the process of studying abroad. After attending Study Abroad 101, students are able to meet with an advisor to discuss their specific goals regarding location, finances, classes/transfer credits and applying.

## Off-Campus Facilities

Some upper-class students elect to live in off-campus facilities. Edinboro University assumes no responsibility for the condition of the housing or the safety and well-being of the student while he/she resides off campus. While the University does not provide students with a list of off-campus options, the staff is ready to assist students in making wise decisions about off-campus accommodations and to assist them should any conflicts arise.

## Commuting

Students may wish to commute from the residence of a parent or relative if located within close proximity to Edinboro University. Commuting students are encouraged to use the campus dining services and the facilities of the University Center.

## Parking on Campus

Parking on campus is by decal which you apply for on line at <https://secure.edinboro.edu/EVR/VehReg.pl> or temporary permit which may be obtained 24/7 from the University Police located at the 6N main entrance of the University in the Information Center. Your current **University ID** and a valid **Driver's License** and **Vehicle Registration** must be presented when picking up your parking decal at the University Police Department. To avoid parking problems, all visitors are requested to stop and obtain a temporary parking permit and directions from the University Police prior to parking on campus. Expired University decals may be easily removed with the application of heat.

For additional information or assistance concerning parking on campus, a copy of the Edinboro University Student Vehicle Registration and Parking Regulations may be obtained from the University Police or viewed at any time on the University Police web site at: <http://www.edinboro.edu/departments/police/>. The University Police may be contacted at any time at 732-2921 for assistance.

## Office for Students with Disabilities

Edinboro University has been actively involved in providing services to students with disabilities since September 1974. The Office for Students with Disabilities (OSD) provides needed support services to students with various disabilities attending the University. These disabilities include, but are not limited to, physical disabilities, learning disabilities, visual impairments and hearing impairments. Students are required to provide signed medical documentation and/or test evaluations to the OSD if they are going to request any accommodations. Services are provided based upon current documentation documented and expressed need by the student. Services include van transportation, wheelchair maintenance, peer advisors, meal aides, academic aides, readers, occupational therapy, athletic teams, sign language interpreters, Braille, tactile drawings, alternative test arrangements, scanned books, priority scheduling and assistive technology services/training. The OSD works closely with disability related agencies including the Office of Vocational Rehabilitation and the Bureau of Blindness and Visual Services. Interested persons should contact the Office for Students with Disabilities.

The Office for Students with Disabilities employs over 100 full-time, part-time and student employees to provide these services. Professional staff include the director, learning disabilities coordinator, occupational therapist registered/licensed, and assistive technology/writing specialist.

## Reserve Officers' Training Corps (ROTC)

The Military Science Program is open to both male and female students who desire to earn a commission as a Second Lieutenant in the United States Army. Students in the first two years of the four-year program incur no military obligation by enrollment in the ROTC Program. Additionally, these freshman and sophomore level Military Sciences courses (maximum of 6 academic credit hours at Edinboro) are offered without cost to full-time students and may be applied toward graduation requirements. Necessary books and equipment are also furnished with no cost to the student.

The primary objective of the ROTC program is to commission the future officer leadership of the United States Army. In peace or war, this is one of the most important missions that can be undertaken. Students commissioned as Second Lieutenants will have an impact on the Armed Forces for the next twenty to thirty years.

Students enrolled in the program receive instruction in the fundamentals of leadership with emphasis on self-discipline, integrity, confidence, and responsibility. This instruction is given in the classroom, on practical field training exercises, and during the summer Leadership Development Assessment Course (LDAC) and Leaders Training Course (LTC), Cadet Troop Leadership Training (CTLT), Northern Warfare Training Course (NWTC), and the Airborne and Air Assault schools. These training experiences enable the student to evaluate situations, make decisions, and develop those attributes considered essential to a leader in both the civilian and military environment.

## Identification Cards

Identification cards can be obtained at the Dining Services and ID Office located in the Van Houten Dining Hall lobby Monday through Friday, 9-11 a.m. and 2-4 p.m. (or other times by appointment). University policy requires that all students, faculty and staff carry the Edinboro University ID card at all times while on campus. ID Cards are required for accessing your meal plan, door access, fitness center admittance, charging books to Financial Aid at bookstore, getting parking passes, checking out books at the Baron-Forness Library, and will provide entry into University athletic games and cultural events. The ID card can also be used as an ATM card if you have a PNC bank account. The ID cards are valid as long as the holder is associated with the University and is in good standing. Initial card cost is \$5.00 and replacement card cost is \$10.00.

## Dining Services

The meal program at Edinboro is designed to exceed our customers' expectation. The services provided are reflective of today's active lifestyles, and anticipates both needs and desires. Locations and menus are varied enough to provide diversity for the pallet as well as flexibility for busy schedules. Whether you are returning for another year or attending Edinboro for the first time, we are glad that you have joined us. Your dining locations include:

- **Van Houten Dining Hall** – the all-you-can-eat residential dining center. The “Marketplace” layout features spatial separation of the different menu concepts and is a break from the traditional straight line cafeteria. Comfort foods, ethnic cuisine, vegan and vegetarian options, and traditional favorites are offered daily. **Morning Editions** offers full breakfast bar, eggs and bacon to order, and a wide assortment of continental items, fruit, yogurt, and cereals. Lunch and Dinner feature varied options at the **Grill, Trattoria, Market Carvery, Intolerance Station, Terra Ve, Menutainment, & Deli/Bakers Crust**. Whether you are feeling adventurous or wanting to stick with favorites there is something for every taste and appetite. We are especially proud of working with Edinboro Food Bank and helping to feed local area shut-ins on a daily basis. So take as much as you want, but please be mindful to eat all you take. A lot of good is done with the portions left in the pan.
- The **Celtic Court** at the Frank G. Pogue Student Center is a convenient space for a quick bite, a study break, or as a gathering place. Special care and quality ingredients are used at **WOW Wings** as well as **Chop'd & Wrap'd**. Our new **5 Pie Pizza** brand features home made fresh dough pizza and sauces, old world pasta dishes, hand held stuffed pizettes and garlic rolls. On the run, grab an **Outtakes** salad, sandwich or dessert.
- Looking to plug in or chill out? Either way the **Cyber Café** offers wireless and wired connectivity, a fitness room view, multiple flat screen televisions, and some of the best **Caribou** coffee drinks, smoothies, Panini sandwiches, **Lakeside bagels** and **Au Bon Pain** soups you could hope to find. Located in the Frank G. Pogue Student Center.

- **Skipjack's** at Rose Hall is the finest retail food court in the Pennsylvania State System of Higher Education. **Papa John's Pizza** is in the Boro, serving pizzas that are a cut above the norm. **Mondo's Subs** combines fresh baked rolls with the freshest ingredients and are prepared both to order and to individual taste. Hankering for Mexican food? **Zona Mexicana** combines fast food affordability with family restaurant quality. An added bonus to this location is a Grill Station **Smashed Burger** with burgers, chicken, fries and more The front side of this space is home to **Hershey's Ice Cream** featuring hand dipped ice creams, shakes, sundaes, waffle cones and Blenjavas. **Seattle's Best** offers up industry leading coffee drinks, and Outtakes grab n' go.
- The Baron-Forness Library houses our flagship **Starbucks** location. You can get **Chop'd & Wrap'd**, an Outtakes sandwich or salad as well as frappuccinos and teas. Be sure to take advantage of the outdoor seating area and walk-up window when (if) weather permits!
- **Sandella's** award winning flat bread and specialty sauce program can be found on the main level of Van Houten Dining Hall. Whether you are looking for pizza, quesadilla wraps, or rice bowls... Sandella's menu items are also included in the Weight Watchers food database. Hot or cold, meat lover or vegetarian, you can't go wrong here.
- **Doucette Outtakes** featuring **Mondos Subs**, salads and wraps to go, fresh baked pastries, Keurig coffees and bottled drinks.

## Program Highlights

- Five retail locations are operated on an *a la carte* basis and feature “meal cash credit” for students enrolled in any of the meal plans. If food selections are greater than the meal cash credit value, you may access your flex account or pay cash to cover additional costs. Daily meal specials are offered to meet the meal cash credit value in order to provide a complete meal. The Marketplace will continue to be the “all-you-can-eat” location allowing students to select additional items without additional cost.
- Plans designed specifically for resident and off-campus students are available. It is required for all students residing in the residence halls to participate in the meal plan program. Underclassmen (students living on campus for two or less semesters) must participate in one of the following meal plans: 19, 14, 10 meals per week or the 210 or 175 block plan with \$150 or \$350 flex. Upperclassmen (students living on campus for 3 or more semesters) must participate in one of the following meal plans: 19, 14, 10 meals per week or the 210, 175, 105 or 60 block plan with \$150 or \$350 flex. Off-campus and commuter students can participate in any meal plan offered. A student ID is required to use your meal program and flex account. Meal plans run from Monday breakfast through Sunday dinner. Block plans run per semester. Meal programs are not transferable.
- **FLEX DOLLARS** – This pre-paid account offers meal plan members the opportunity to make purchases above the meal cash credit. Participants in all the meal plans with flex may add to their flex dollar accounts at any time with a minimum of \$25.
- **FLEX ONLY** – A flex only account for off-campus students or commuters who buy fewer meals but would still like to have a pre-paid account. Requires a minimum purchase of \$100.
- **Off-Campus Students** may also choose from all available meal programs: 19, 14 or 10 meals per week or the 210, 175, 105 or 60 block plan with \$150 or \$350 flex.
- Students participating in the dining service programs are required to abide in accordance with all relevant dining service rules and regulations.

# ACADEMIC AFFAIRS INFORMATION



EDINBORO  
UNIVERSITY

# ACADEMIC AFFAIRS

## Introduction

For the student pursuing a program of study at Edinboro University, the catalogue is an important planning tool. It provides essential information that will assist the student in meeting the requirements and standards related to that program of study as well as the range of services and opportunities provided by the University in support of the student's educational goals. The catalogue should be used in working with the student's advisor.

The information contained in the catalogue applies to the program of study for individuals entering Edinboro University during the year for which the catalogue is dated. The information in this section of the catalogue explains the essential elements of academic policies, procedures and standards in effect at the time of its publication. Additional information concerning these issues is available from the Office of the Provost and Vice President of Academic Affairs. Students are expected to follow their program of study outlined in the catalogue in effect at the time of their admission to that program. Students who transfer to a new program or who interrupt their program of study for a period exceeding one calendar year and are subsequently reinstated will be expected to meet the requirements of the program in effect at the time of their transfer or reinstatement. When this is impractical, students, together with their advisor and chairperson, will develop a program to be approved by the dean of the school. Reinstated students who return to the University within one calendar year of their last enrollment have the option of continuing under the curriculum and graduation requirements for which they were responsible when they left the institution.

## Academic Advisement and Student Responsibility

Upon entering Edinboro University, each student is assigned a faculty advisor who, by experience, professional background and example, should be particularly qualified to assist the student in planning the program of study, in developing successful strategies for academic success and in providing insight into preparation for a career and the value of the program of study the student has undertaken. Academic advisors are available during regularly scheduled office hours or by appointment to meet with their advisees. The academic advisement process is a critical element in a university education.

In addition, professional counseling is available to those seeking assistance with academic or personal problems. These opportunities are listed elsewhere in this catalogue and in other publications provided to students.

The student is responsible for ensuring that all requirements for graduation have been met. It is expected that each student will discuss, on a regular basis, the development and execution of a plan of study for his or her academic program with the assigned academic advisor. However, the final responsibility rests with the student.

## Degree Completion – Time Involved

While some students complete their baccalaureate degrees in less than four years, a significant number find that it takes more than the traditional time to complete their studies. This national trend reflects the flexibility of scheduling and a variety of student lifestyles in the modern university. Transfers, special learning needs, outside priorities, internships, and scheduling patterns all impact student progress. Students are urged to work carefully with their advisors to plan and to follow an academic program that meets academic and personal needs, realizing that program completion expectations may vary from initial expectations.

## Simultaneous Degrees

A student who wishes to pursue two undergraduate degrees simultaneously at Edinboro University should submit a written request to the Office of Records and Registration, Hamilton Hall, at least one calendar year prior to the student's anticipated graduation date.

The Records and Registration Office may authorize the student to pursue two degrees simultaneously subject to the following conditions:

1. The student must meet with the faculty and dean responsible for each program to develop an approved plan of study which will enable the student to satisfy all requirements of both degree programs.
2. Requests for special waivers of course requirements and/or other considerations for individualized instruction to accommodate the student's completion of required courses must be authorized by the appropriate dean.
3. In earning two baccalaureate degrees, the student shall complete a minimum of 30 semester credits that can be identified as fulfilling requirements in only one of the degree programs. Since most degree programs require 120 credits, the student then must complete at least 150 semester hours to earn both degrees. Similarly, the student who wishes to simultaneously complete a baccalaureate degree and an associate degree must complete at least 15 semester hours that can be identified as fulfilling requirements in only one of the degree programs. The student then must complete a minimum of 135 hours to earn both degrees.
4. At the time the student applies for graduation, he/she must submit two graduation cards clearly indicating the application for the award of two degrees simultaneously.
5. If at some point the student no longer wishes to pursue two degrees simultaneously, he/she must so notify the Registrar and the appropriate dean(s) in writing.

## Dual Majors

A student who wishes to pursue two undergraduate majors concurrently at Edinboro University shall complete the Dual Major Request form located on the Records and Registration website or in Hamilton Hall, at least one calendar year prior to the student's anticipated graduation date. If a student desires to earn two degrees simultaneously (e.g., BA Biology and BFA Studio Arts), he/she will be referred to the Simultaneous degree policy.

## Academic Standards and Procedures (F.E.R.P.A.)

### Confidentiality and Privacy of Student Records

University policy is in compliance with the Pennsylvania "Right To Know Law of 1957" and the federal "Family Education Rights and Privacy Act of 1974" concerning the rights of students to confidentiality and privacy of their records.

The release of the following "directory information" is permitted under the law, and it may be released to third persons at the discretion of the coordinator of records without the prior permission of the student:

1. Student's name
2. Campus, local or home address, e-mail address, and telephone number
3. Date, place of birth, weight/height (for members of athletic teams)
4. Dates of attendance, most recent or previous educational institution attended, academic major
5. Date of graduation and degree/awards received, part-time/full-time status
6. Student activity participation (including athletics)
7. Information concerning alumni accomplishments
8. Student photograph

Each student has the right to prevent the release of directory information indicated above by notifying the Office of Records and Registration in writing. Such notification must be submitted to the Office of Records and Registration no later than the end of the "Add Period" established by the University for each academic session. Once a written request to withhold information has been received, it will remain in effect until the student rescinds the request, in writing, to the Office of Records and Registration.

### Standard Grading System

Academic achievement is indicated by letter grades which represent eight (8) levels of work:

A	Work of exceptional quality;
B+	
B	Superior work;
C+	
C	Average work that indicates good quality in daily recitation, assignments and examinations;
D+	
D	Work that is below average or unsatisfactory;
F	Failure, the course must be repeated to remove the resultant quality point deficiency;
AH	Honors work of exceptional quality;
B+ H	Honors work of superior quality;
BH	Honors work of superior quality.

The provision for use of a plus (+) within the B, C or D grade distributions allows for an additional gradation within the broad definitions indicated.

### Other grade designations include:

AU	indicates course taken for audit (no credit earned);
E	indicates credit earned by competency examination;
L	indicates credit earned for Life Experience;
R	indicates research in progress;*
S	indicates credit taken under the Satisfactory/Unsatisfactory option. Credit earned.
U	indicates credit taken under the Satisfactory/Unsatisfactory option. No credit earned.
V	indicates credit earned for military training.
W	Student withdrew from the course prior to the end of the withdrawal period established by the University.
I	Incomplete**

\* Research in Progress: The "R" letter is used in undergraduate courses where circumstances prevent the completion of a project involving research or similar investigations, within the normal academic grading period. The deadline for the removal of an "R" designator, and its replacement by a standard letter grade, is one calendar year from the date of the original posting of the "R" designator.

\*\* Incomplete: The "I" letter indicates the student has been unable to complete the required coursework within the time limit of the course because of illness, or some other reason acceptable to the faculty member teaching the course. The deadline for the completion of an Incomplete grade(s) is at the end of the 4<sup>th</sup> week of the next subsequent regular semester. "Failure to complete the necessary work within the time limit will result in the "I" designator being automatically converted to a failing grade (F) for the course.

Extenuating Circumstances Withdrawal: W grades are awarded to students who withdraw after the tenth week for extenuating circumstances. Procedures for withdrawal are listed elsewhere in this section. No withdrawals are valid unless the student has secured the approval of the dean of the faculty in which a student is a major. No withdrawals are permitted once the final exam period has begun.

### Satisfactory/Unsatisfactory Grading System (S/U)

1. The satisfactory-unsatisfactory option will be open to any undergraduate student who at the beginning of the semester is in good academic standing and has more than thirty-one (31) earned semester hours.
2. Students wishing to exercise the S/U option must do so during the "ADD" period of registration, as established each semester by the University, or during the first two days of each summer session. The student must file a proper request with the Registrar. After opting for an S/U in a course, the student may NOT reverse the option and elect to take a regular letter grade in the course.
3. A student will receive a final grade of S(satisfactory) for C or better work or U (unsatisfactory) for D or below D level, for a course taken under the S/U standard where a dual grading system exists.
4. Courses for which a satisfactory grade is earned will count toward graduation. The grade will not affect the student's grade point average. Courses for which an unsatisfactory grade is received, will not count toward graduation. The grade will not affect the student's grade point average.
5. Departments may, with the appropriate committee and University Senate approval, offer courses that are graded entirely according to the satisfactory-unsatisfactory standard. All other courses are optional S/U courses in which students will receive a grade according to the standard for which they are registered.
6. Student teaching will be graded on a letter grade basis unless the student elects, during the add period, to receive a S/U grade. Failure to request the S/U grade will result in letter grading.
7. No student may exercise the satisfactory/unsatisfactory option in more than four (4) courses in which a dual grading system is utilized, as part of their undergraduate degree program. A maximum of one course each semester and one each summer may be taken on a satisfactory/unsatisfactory basis.
8. No students will be permitted to use the S/U option for any courses that are required for their major, unless the course has been approved for grading on the S/U basis as established in Item Five (5) above.
9. In courses with some students on the traditional grading system and others electing the course S/U the instructors will not know which students are taking the course S/U. The traditional final grade for the course will be recorded and submitted by the professor to the Office of Records and Registration. The Office of Records and Registration will convert the traditional grade to either S or U for inclusion on the student's record.
10. Only those courses which are offered solely on a S/U basis may be repeated under the satisfactory-unsatisfactory option.
11. A student who elects a course or courses under the S/U option and who then transfers to a major for which that course or courses are required will be allowed to transfer S/U courses for credit. Such transfer will be at the discretion of the dean of the school into which they are transferring and after consultation with the appropriate department chairperson.
12. Any course that is not offered on a continuing basis, i.e., once in every three semesters, is identified in the schedule with a recommendation that students enrolling in such a course should have a minimum GPA of 2.00 and/or be alerted to using the S/U option (since it may be impossible for a student to repeat such a course). Students are cautioned that the S/U option is not applicable for any course required for their major.



## Guidelines for Electing Satisfactory/Unsatisfactory (S/U) Grading Option

When a student elects to be graded on a satisfactory/unsatisfactory basis while enrolled in a course which has a traditional grading system, as well as a satisfactory/unsatisfactory system, a student will submit a request form (Student Request for “Satisfactory-Unsatisfactory” Grade) for S/U grades with the Registrar during the “ADD” period of each semester or the first two days of each summer session.

The Registrar will so identify this request in the computerized record keeping system.

The student request form will inform the Registrar of previous S/U courses taken by the student and will supply additional information as necessary.

## Student Appeal Procedure

When a student has a problem, concern, or difficulty with a faculty member, the student should first discuss the matter with the instructor. If agreement is reached, the matter is resolved. If agreement is not reached, then the student may appeal to the department chairperson of the department to which the faculty member belongs. A meeting with the student, the faculty member, and the chairperson will be held. If agreement is reached, the problem is solved. If agreement is not reached, then the student may appeal to the dean of the school to which the faculty member reports. A meeting with the student, the faculty member, the chairperson, and the dean will be held. If a satisfactory solution is found, the problem is solved. If not, then the student may appeal to the provost/vice president for academic affairs in an attempt to resolve the problem. It is anticipated that, through the use of the above procedures, the problem will be resolved and there will be no need for further interactions. The president of the University is the final source of appeal.

## Grade Appeal Intent

This policy provides for due process in the rare instance when a student believes that a final grade assigned in a course reflects unsubstantiated academic evaluation or calculation error by the course instructor. It also provides a remedy in cases where the hearing process sustains the student’s claim. The process is not a disciplinary proceeding for any of the involved parties, although the findings may lead to disciplinary investigation or action under a different University policy.

## Policy

Each academic department of the University shall have an Academic Appeals Committee. Membership on the Committee shall consist of at least three faculty members of the department and at least two students who are majors in the department’s programs, all of whom shall be elected by the department faculty. Students wishing to appeal a final grade must initiate the appeal within fifteen (15) calendar days after the beginning of the semester following the issuance of the grade. Summer school shall not constitute a semester. The departments will maintain records of all grade appeals. With the exception of the grade change, no part of this procedure will become a part of any individual’s university record or file.

Since the grading process involves the instructor’s judgment of the student’s academic performance, the only issue under consideration for final grade appeal is whether the student can provide clear evidence that the assignment of the grade was a result of a calculation error or was assigned based on unsubstantiated academic evaluation by the instructor. Examples of reasons for appeal include the following:

- The instructor did not calculate the student’s grade consistent with the instructor’s stated policy for calculating grades. In this instance, the instructor would have been found to make significant and unwarranted deviations from grading procedures or course outlines set at the beginning of the course.
- The course grade was assigned in an arbitrary, capricious or inequitable manner against the student. This condition does not include disagreement between the student and instructor on the subjective professional evaluation of the instructor.
- There is an error in the computation of the grade.

## Appeals Procedure

1. The student should initiate the procedure by consulting on an informal basis with the FACULTY member who assigned the final grade within fifteen (15) calendar days of the start of the subsequent semester. If no satisfactory results are achieved, then the student may continue the appeals procedure. (In the instance where the instructor is on leave or no longer employed by the University, the student should appeal directly to the department chairperson, who shall make a reasonable attempt to contact the instructor for resolution or response to the appeal. In the event that the instructor cannot be contacted, the student may proceed through the appeal process with the department chairperson serving to represent the instructor in the appeal to the best of his/her ability. The department chairperson may also appoint an alternate faculty member (preferably from the same discipline as the original instructor) to represent the interests of the instructor in the appeal process.)
2. A written grade appeal shall be made by the student directly to the FACULTY member who gave the grade within twenty-five (25) calendar days after the beginning of the semester following the issuance of the grade. A copy of the appeal must be sent to the chairperson of the department in which the appeal is made. Summer school shall not constitute a semester. If the department chairperson is the FACULTY member subject to grade appeal, then the chair of the department Academic Appeals Committee shall substitute for the department chairperson in this process.

Should the FACULTY member find in favor of the student, the grade change form, initialed by the department chairperson, shall be sent within ten (10) calendar days to the Registrar, who will notify the student of the grade change. Should the FACULTY member find in favor of the grade as given, the student shall be notified, in writing, within ten (10) calendar days by the FACULTY member, with copy to the department chairperson.

3. Should the student desire, he/she may appeal a negative decision by the FACULTY member to the Academic Appeals Committee of the department in which he/she received the grade within ten (10) calendar days after being notified by the FACULTY member. The appeal shall be made, in writing, to the chairperson of the departmental Academic Appeals Committee, with a copy provided to the department chairperson. The Committee shall hold a hearing within ten (10) calendar days following the student appeal. Both the FACULTY member and the student involved shall be invited to attend. The Committee shall have the power by simple majority vote to decide cases involving grades erroneously calculated or assigned based

on this policy. A tie vote of the Committee upholds the FACULTY member’s decision. No student or FACULTY member shall sit in judgment if he/she is involved in the case, is a family member of either party, or resides in the same residence of either party.

The Chair of the Academic Appeals Committee will inform the student in writing regarding the outcome of the appeal. Should the committee find in favor of the student, a recommendation of a grade change shall be sent to the Dean of the appropriate College or School. The Dean shall thereafter submit the grade change form to the Registrar.

4. The student may appeal the ruling of the departmental Academic Appeals Committee to the Provost and Vice President for Academic Affairs only in either of the following circumstances: (1) there was an error in procedure or interpretation of this policy that was so substantial as to effectively deny the student a fair hearing; or (2) new and significant evidence, which could not have been presented by diligent preparation at the initial hearing, has become available. The student should present this appeal in writing to the Office of the Provost/VPAA within ten (10) calendar days of receipt of the ruling from the departmental Academic Appeals Committee. The appeal must include evidence indicating the occurrence of one of the two above cited circumstances. The Provost/VPAA will hold a hearing within fifteen (15) calendar days of receipt of this appeal, if the appeal appears warranted; otherwise the student will be informed that the appeal has been denied. If a hearing is scheduled, the participants will include the Provost/VPAA (or his/her designee), the FACULTY member, the chairperson of the Academic Appeals Committee, and the student involved. The student will receive a written decision regarding the grade appeal from the Provost/VPAA, copied to the department’s Academic Appeals Committee and department chairperson. The decision of the Provost/VPAA regarding the grade appeal will be final. If the Provost/VPAA finds for the student, the Provost/VPAA will direct the department chairperson to work with the FACULTY member and/or other faculty in that discipline to determine the appropriate grade.

### Grade Point Average (GPA)

Graduation is based on satisfactory completion of a certain quality of specified coursework and on the maintenance of a minimum quality of scholarship. A grade point average of 2.00 is the minimum required in most curricula. If a given curriculum requires more than an overall GPA of 2.00, this requirement will be specified in the section of the catalogue describing that program.

The following grade points are assigned to the equivalent grade as follows:

A	=	4.00	C	=	2.00
B+	=	3.50	D+	=	1.50
B	=	3.00	D	=	1.00
C+	=	2.50	F	=	0.00

To earn the minimum 2.00 grade point average the student must earn a number of grade points equal to twice the number of semester hours of credit that he/she has attempted. R and I grades do not affect the grade point average until these grades are changed to reflect the final grade of academic work in the course by the award of a final grade.

Grades are available at the midterm and at the end of the semester on the S.C.O.T.S. system.

The grade report lists courses attempted, GPA hours attempted, hours earned and grade points. GPA Hours attempted equal the number of semester hours for which a student enrolls. Hours earned equal the number of semester hours completed with a D or better grade. The grade points equal the hours earned multiplied by the grade point award for each grade. Thus to determine the grade point average one divides the grade points by the GPA hours.

**EXAMPLE:** A student receiving the following grades during a semester would have 15 GPA hours, 17 hours earned, 40.5 grade points, and a grade point average of 2.70.

Course	Grade	GPA Hours	Earned Hours	Grade Points
1st Subject	B	3	3	9
2nd Subject	C+	3	3	7.5
3rd Subject	D	2	2	2
4th Subject	A	4	4	16
5th Subject	S	0	3	0
6th Subject	B	2	2	6
7th Subject	F	1	0	0
		15	17	40.5

Grade Point Average 40.5 divided by 15 = 2.70

It should be noted in the example that courses taken on a Satisfactory/Unsatisfactory basis do not contribute to the hours attempted or the grade points earned. A course failed does count for the GPA hours but does not contribute to the hours earned or the number of grade points accumulated.

### Class Standing

There is a relationship between traditional class standing and credits earned. Academic progress is measured by credits earned. The following table defines class standing. However, academic progress, as it relates to issues such as scheduling priority, is determined by credits earned.

	Credits Earned
Freshman	0-29
Sophomore	30-59
Junior	60-89
Senior	90-120

### Repeating Courses

Undergraduate students may repeat any course. Undergraduate students will be limited to a maximum total of six repeated courses. Students cannot repeat more than six courses unless an exception to the policy has been granted by the Provost or designee. A single course can be repeated a maximum of two times. The course should appear no more than three times on a transcript unless the student has appealed and has been granted an exception for extenuating circumstances by the Provost or designee. The most recent grade (regardless of whether it is higher or lower) will be the grade used for the cumulative GPA calculation. Note: For Post-Baccalaureate students, if the student classification is Graduate then the Graduate Course Repeat Policy is applicable.

Undergraduate students may repeat failed course work at another institution. Students should utilize a transfer articulator such as the PA TRAC, which is found at [www.patrac.org](http://www.patrac.org) or the Edinboro University Transfer Articulator on the EUP website. These transfer articulators will assist in course selections at a community college or another college/university for transfer back to EUP. We *strongly suggest* that students consult with their Academic Advisor or Dean prior to registering for classes.

Following completion of the coursework the student is instructed to have an official transcript sent to the Office of Records and Registration. Transcripts are compared with the authorization form and, if the students earned a grade of “C-” or better, the credits are added to the academic record; and if the student is repeating failed coursework, then the failed course at Edinboro is coded so as not to impact the student’s GPA.

Academic Departments may designate specific courses as allowing a limited number of repeats. If a student must repeat a course designated as such more than once to earn a grade of C or better, then the permission of the chair of the department offering the course must be obtained prior to registration for the third time.

Exception to the above policy, when it serves the best interest of both the students and the University, will be possible only with the approval of (1) the department chair in which the student is majoring, (2) the department chair offering the course, and (3) the dean administering the curriculum in which the student is majoring.

### Exemption from Required Courses

An undergraduate student may apply for exemption from required courses in his/her curriculum by following the procedure outlined below:

1. A recommendation from the student’s academic advisor and endorsed by the chairperson of the student’s major department is forwarded to the student’s program dean.
2. If a dean grants an exemption, an authorization for exemption is forwarded to the Registrar with copies to the student, the student’s advisor, and the chairperson of the student’s major department.
3. Students who desire an exemption from a course for which they have been scheduled must do so before the end of the “ADD” period by following the procedure outlined above.

### Academic Warning, Probation, and Suspension

A minimum cumulative grade point average (GPA) of 2.00 is required of undergraduate students to be in academic good standing, and is required of students to graduate from certificate, associate degree and baccalaureate degree programs.

Any first semester degree seeking student (freshman or transfer) earning a cumulative GPA of less than a 1.00 at the end of their first semester will be placed on Academic Probation.

Any first semester degree seeking student (freshman or transfer) who earn between a 1.00 and 1.99 cumulative GPA will be placed on Academic Warning for the following semester or summer session for which they are enrolled. Students are permitted only one semester of Academic Warning.

Should the cumulative GPA of any student who has received an Academic Warning fall below 2.00, the student will be placed on Academic Probation for the subsequent semester, summer or winter session. Other students whose cumulative GPA falls below a 2.00 they will be placed on Academic Probation for the subsequent semester, summer or winter session.

If a student on Academic Probation should earn a semester GPA above 2.00 without their cumulative GPA reaching a 2.00, they will continue in Probationary status. The status will continue for each semester, summer or winter session until their cumulative GPA reaches 2.00.

Any student on Academic Probation who has failed to meet both the 2.00 semester and 2.00 cumulative GPA standards will be placed on Academic Suspension from the University for a minimum of one semester.

Students on Academic Warning or Academic Probation may attend summer sessions.

Academic suspensions cannot be served during summer or winter sessions.

Academically suspended students may enroll in summer or winter sessions only with permission of the Dean. Academically suspended students may repeat failed coursework at another college or university with permission from their Dean. Academic standing (good, probation, suspension) may be adjusted according to performance in summer or winter sessions.

Any student admitted to the University on academic probation status, whose first semester cumulative GPA is below the 2.00 standard will be on academic probation. Academic Probation is a serious warning to students that it is incumbent upon them to improve their cumulative GPA to avoid academic suspension or to meet graduation requirements. All students on academic warning or probation shall participate in the services provided by the Academic Success Center.

Students are informed of academic warning, probation or suspension at the end of each semester or session.

Undergraduate students who are academically suspended must sit out one semester before being eligible to apply for reinstatement. Immediate appeals of academic suspension based upon health emergencies, an error in records, or other extraordinary extenuating circumstances may be filed at the office of the Registrar. The Registrar will make a recommendation to the Dean who will then decide if immediate reinstatement from suspension is warranted.

Undergraduate students may repeat failed coursework at another institution. Students should utilize a transfer articulator such as the PA TRAC. This transfer articulator will assist in course selections at a community college or another college/university for transfer back to Edinboro University. It is *strongly suggested* that students consult with their Academic Advisor or Dean prior to registering for classes.

Following completion of the coursework the student is instructed to have an official transcript sent to the Office of Records and Registration. If the student earns a grade of “C-” or better, the credits are added to the academic record; and if the student is repeating failed coursework, then the failed course at Edinboro is coded so as not to impact the student’s GPA.

Students who are reinstated following suspension for academic reasons must participate in the services provided by the Academic Success Center. If they do not demonstrate satisfactory academic progress following reinstatement from suspension they will be suspended again. Normally students will not be reinstated after a second suspension.

Transfer student progress is determined the same as non-transfer students. The cumulative GPA for transfer students is computed using only hours attempted at Edinboro University.

When, in the judgment of the Provost and Vice President for Academic Affairs, extenuating circumstances prevail, exceptions to these standards may be made.

### RELATED POLICIES

PASSHE, Board of Governors Policies, System Academic and Financial Procedures: SA043, Academic Standing; EUP Policies: A022, Repeating Courses; A019, Transfer Standards.

## Academic Standards

Student Type	Cumulative GPA at end of 1st Semester	End of Semester Academic Standing
New Freshman or Transfer	$\geq 2.00$	Good Standing
New Freshman or Transfer	1.00 to $< 2.00$	Academic Warning
New Freshman or Transfer	$< 1.00$	Academic Probation
Student Type	Cumulative GPA	End of Semester Academic Standing
Continuing Student on Academic Warning	$\geq 2.00$	Good Standing
Continuing Student on Academic Warning	$< 2.00$	Academic Probation
Continuing Student in Good Standing	$\geq 2.00$	Good Standing
Continuing Student in Good Standing	$< 2.00$	Academic Probation
Continuing Student on Academic Probation	$\geq 2.00$	Good Standing
Continuing Student on Academic Probation	Semester GPA $\geq 2.00$ and Cumulative GPA $< 2.00$	Academic Probation
Continuing Student on Academic Probation	Semester GPA $< 2.00$ and Cumulative GPA $< 2.00$	Academic Suspension

### NOTES:

Cumulative GPA is calculated by dividing the quality points earned for all semesters by the number of GPA hours attempted for all semesters.

Semester GPA is calculated by dividing the total number of quality points received for the given semester by the total number GPA hours attempted for that semester.

### Reinstatement

Individuals whose enrollment at Edinboro University of Pennsylvania has lapsed for at least one academic semester and undergraduate students who have previously withdrawn from the University must make application for reinstatement to the Office of Records and Registration. Reinstatement into any academic major is subject to the approval of the dean of the appropriate school. Students who withdrew for medical reasons must gain clearance from Ghering Health Center.

Students who for any reason have interrupted their enrollment at Edinboro University for a period exceeding one calendar year are subject to the curriculum and graduation requirements in effect at the time of their reinstatement. Reinstated students who return to the University within one calendar year of their last enrollment have the option of continuing under the curriculum and graduation requirements for which they were responsible when they left the institution.

Financial obligations to the University will preclude reinstatement.

Students under disciplinary suspension will not be considered for reinstatement until the terms of the suspension sanction have been met. Exceptions may be considered by the president of the University upon the recommendation of the Vice President for Student Affairs.

Students under academic suspension for the first time will be considered for reinstatement provided at least one academic semester has elapsed since suspension. Students suspended a second time will not normally be reinstated. Exceptions may be considered by the academic deans. Students requesting reinstatement from suspension or who were on probation at the time of withdrawal may be subject to conditions for reinstatement such as reduced course load, repetition of specific courses, taking new program requirements, required participation in the Academic Success Center, or referral to the Fresh Start Program.

### Plagiarism

Plagiarism may be defined as the act of taking the ideas and/or expression of ideas of another person and representing them as one's own. It is nothing less than an act of theft, and, as such, is subject to University disciplinary action. The penalty for plagiarism may include a failing grade for the assignment in question and/or a failing grade for the course.

Clearly, plagiarism defeats the central purpose of education, namely, to enable one to think and formulate one's own ideas. The student who has doubts about whether his/her work may constitute plagiarism should consult with the course instructor prior to submitting the work. The instructor can provide clear guidance on how the student can avoid committing this act of academic misconduct.

## Transfer Credit and the Edinboro Student

It is possible for students at Edinboro University to take courses at other institutions for transfer to their programs at Edinboro. Students should go to the [www.patrac.org](http://www.patrac.org) (Pennsylvania Transfer and Articulation Center) website. Select “Course Equivalencies”. Enter the appropriate college information. You can view the approved course equivalencies that will transfer to Edinboro University.

Undergraduate students may repeat failed course work at another institution. Students should utilize a transfer articulator such as the PA TRAC, which is found at [www.patrac.org](http://www.patrac.org) or the Edinboro University Transfer Articulator on the EUP website. These transfer articulators will assist in course selections at a community college or another college/university for transfer back to EUP. We *strongly suggest* that students consult with their Academic Advisor or Dean prior to registering for classes.

Following completion of the coursework the student is instructed to have an official transcript sent to the Admissions Office. Transcripts are reviewed and, if the student earned a grade of “C-” or better, the credits are added to the academic record; and if the student is repeating failed coursework, then the failed course at Edinboro is coded so as not to impact the student’s GPA.

Credit to meet degree requirements for a particular academic program will not be given for (1) courses which are not equivalent to those required or approved for the curricula; (2) courses completed at other colleges or universities in which grade below “C-“ were earned. Academic deans may allow free elective credit to be awarded for valid academic courses for which the University has no equivalent.

Official transcripts from other colleges and universities submitted for evaluation of transfer credit must be received directly from the institution. Transcripts that are marked “issued to student” or received from the student in sealed envelopes are not official and cannot be accepted.

## Visiting Student Program

As a member institution of the State System of Higher Education, Edinboro University participates in the Visiting Student Program, which is designed to facilitate enrollment of undergraduate students at SSHE institutions other than their home campuses. Through the program, Edinboro University students may enroll for a limited period of time at any of the other SSHE institutions in order to take advantage of courses, programs, or educational experiences not available at Edinboro, without loss of institutional residency, eligibility for honors or athletics, or credits toward graduation. Any visiting student wishing to receive financial aid for coursework taken at Edinboro must make arrangements for aid through their “home institution.” For more information about the Visiting Student Program, contact the Registrar, Office of Records and Registration, Hamilton Hall.

## Fresh Start

A student who has been academically suspended may apply for reinstatement to the institution and have a new academic record created. Students must sign an application form permitting full review of their records by the Provost/Vice President for Academic Affairs. Students can be admitted only once under the Fresh Start program.

### Policy

1. A student must sit out at least two years before being eligible for Fresh Start.
2. A student will be placed on provisional status for one semester of full-time study, or until he/she has attempted 15 semester hours if attending part-time. A student must achieve a minimum grade point average of 2.00 by the end of the period of provisional status.

Failure to achieve the 2.00 minimum GPA will result in permanent suspension from Edinboro University of Pennsylvania.

3. All grades for courses taken prior to the point at which Fresh Start is granted will remain on the academic transcript and academic history, but the cumulative grade point average will be represented as “0.00.”
4. Only courses in which grades of C or better were earned at Edinboro will count as semester hours earned toward graduation.
5. Courses taken at other regionally accredited institutions prior to acceptance into the Fresh Start program will be evaluated for transfer.
6. A student who is readmitted under the provisions of the Fresh Start policy retains the right to utilize course repeat options as specified by University Policy.

### Procedure

1. The student applies in writing to the Registrar requesting re-admission through the Fresh Start Program.
2. The Registrar will transmit the request to the dean for consideration, noting any academic or disciplinary holds.
3. The dean of the college/school to which the student is seeking readmission will review and recommend on all applications for Fresh Start.
4. The Provost/VPAA will approve or disapprove all applications for Fresh Start.
5. Upon approval, the Registrar will direct the completion of an academic plan through the student’s advisor or department chair.

## Change of Major Procedure

Students desiring to change from one major to another must make application at the Office of Records and Registration. Before a curriculum change is effected, a student’s academic record will be evaluated. Entrance into certain majors may be subject to enrollment constraints.

To be eligible to declare a new major, a student generally must be in good standing, must meet program requirements, and the change must be approved by the chairperson of the school housing the program to which the student wishes to change. International students must comply with USCIS regulations regarding change of major.

Students enrolled in the Undeclared curriculum are required to declare their major by the time they complete 45 semester hours. Undeclared students should consult with their advisors before applying for a major change.

Students are expected to follow their program of study outlined in the catalogue in effect at the time of their admission to that program. Students who transfer to a new program or who interrupt their program of study for a period exceeding one calendar year and are subsequently reinstated will be expected to meet the requirements of the program in effect at the time of their transfer or reinstatement.

Students changing from one major to another may discover that some of their credits are not applicable to the curriculum of the new major. Because most curricula require a sequence of courses, it is advisable to make application for a change of major after completing no more than 45 credit hours.

## Class Attendance Policy and Procedure

1. Students are expected to attend each class meeting in its entirety. Faculty members shall maintain a record of classroom attendance. Each student is responsible for verifying his or her attendance when arriving late to class and/or justifying early departure.

2. Class absences are excused for medical reasons, university activities approved by the appropriate vice president or designee, and/or for personal exigencies. University activities appropriate to be considered as an excused absence include but are not limited to: scheduled athletic events, cultural events, academic competitions, etc., in which the student is a participant. Other appropriate situations include: military duties, auto accidents, death in immediate family, medical emergencies. Verification of such absences may be required by the instructor, and the student is responsible for make-up work as required by the instructor.
3. A student, who has been recognized by an individual faculty member as potentially benefiting from learning experiences which complement regular classroom attendance, may contract with their instructor for a mutually agreeable alternative to regular classroom attendance.
4. Faculty members are encouraged to consider class attendance in their grading. A student shall have the privilege of unexcused absences equal to the number of classes held in a week, or to one absence per credit hour, whichever is less.

#### Procedure

1. All faculty shall keep attendance records.
2. Faculty shall notify students in writing within the first week of the semester or the equivalent time during the summer sessions, of the grading consequences of class attendance/non-attendance.
3. A student may negotiate with the course instructor for an individualized participation agreement which must be executed in writing with a copy to the student and the original retained by the faculty member. The original will be maintained for a period of not less than one calendar year after the final grade is awarded.
4. It is the responsibility of the student to provide to the instructor, in advance when possible, justification for all absences.
5. A student participating in an official university activity shall obtain a letter from the appropriate vice president or his/her designee authorizing the absence and provide it to the course instructor, in advance.
6. A student with an excused absence shall arrange with the course instructor for make-up work.
7. The course instructor is encouraged to consider class attendance in determining the final grade.

## Student Academic Load

### I. DURING THE ACADEMIC YEAR

The limits on the total course credit hours carried by a student each semester are based upon the academic record of the individual student and are as follows:

1. A normal full-time load is 12-18 semester hours.
2. Students who have an overall cumulative grade point average of 2.00 to 2.99 may register for 12 to 18 semester hours.
3. Students who have an overall cumulative grade point average of 3.00 or better may register for up to 18 semester hours, or 19-21 semester hours with the approval of the advisor, the department chairperson and the academic dean.
4. Students who have less than a 2.00 cumulative grade point average may register for a maximum of 16 semester hours. Students may register for additional credit hours under extenuating circumstances provided that they have the approval of their advisor, the department chairperson, and the academic dean.

### II. DURING SUMMER OR WINTER SESSION

1. Students normally take up to six semester hours (or eight if two four-credit courses are taken) during a five or six week summer session and up to three semester hours (or four if one four-credit course is taken) during a three week summer or winter session.

2. Requests to take more than the normal number of credit hours in any summer session should be made only under extenuating circumstance, and must be approved by the student's advisor, department chairperson and academic dean.

#### Procedure

An overload approval form is available from the departmental office. If the request is approved by the advisor, the department chairperson and the academic dean, the approval form is then submitted to the Office of Records and Registration for recording purposes. The same form is used for all conditions covered under this policy.

## Definitions of a Credit and Course Information

### Semester Credit Hour

#### Intent

The intent of this policy is to establish standards for assigning semester hours of credit to courses offered by Edinboro University.

#### Policy

The principle guiding the assignment of one semester hour of credit is that each semester hour reasonably approximates not less than forty-five hours of effort by the student over the duration of the semester. Not all of this effort is necessarily expended while in face-to-face contact with an instructor. Different types of courses require different amounts of contact time. The following standards are intended to specify minimum contact time for the award of one semester hour of credit. Some courses exceed these minimum standards. For purposes of these standards, one hour of contact time is defined as fifty minutes of actual contact. Actual contact time is listed after each standard in parentheses.

1. Lecture semester hour = 15 hours (750 minutes) of contact per semester or per equivalent session.
2. Studio semester hour = 22.5 hours (1,125 minutes) of contact per semester per equivalent session.
3. Laboratory semester hour = 30 hours (1,500 minutes) of contact per semester per equivalent session.
4. Internship semester hour = 45 hours (2,250 minutes or 37.5 hours) of contact per semester per equivalent session.
5. Clock-hour semester hour = 45 hours (2,250 minutes or 37.5 hours) of contact per semester per equivalent session.

Some courses may combine two or more of these categories. For example, a science course may combine two semester hours of lecture with one semester hour of laboratory for a total of three semester hours. In this case, the lecture component would include a minimum of 1,500 (2 times 750) minutes of contact and the laboratory component would include a minimum of 1,500 minutes of contact.

Online and individualized instruction courses are assigned the same number of semester hours of credit as an identical course delivered in a fact-to-face format, based on a determination that the student learning objectives and outcomes attained by the online or individualized instruction course are consistent with those of the face-to-face course. Similar standards apply to the assignment of credit based upon life experience or examination. Online courses for which there are no face-to-face equivalents and independent study courses will be designed and offered to achieve course learning objectives that will reasonably approximate not less than forty-five hours of effort by the student for each semester hour of credit assigned.

#### Procedures

1. At the time that a course is approved for inclusion in the curriculum, the basis for the assignment of credit hours should be specified and placed on file with the Registrar.

- At the time that a course is approved for online delivery, it should be reviewed to ensure that the student learning objectives and outcomes are consistent with those of an identical course delivered face-to-face.
- The procedure for assigning undergraduate credits to reflect learning acquired in a non-traditional manner such as prior learning/life experience or examination may be found under Policy No. A004, Earning Credit by Examination or Evaluation.

## Academic Level of Courses

Academic Level is used for State System reporting, faculty workload computations, fee calculations, course registration, transcripts and degree audit.

Academic levels are assigned to courses instead of relying on a course number. Codes are independent of course numbers and operate “behind the scenes”.

Academic Level	Code	Description
UG Level 0	050	Developmental/Remedial courses
UG Level 1	110	Introduction/Foundation UG courses
UG Level 2	120	Intermediate/Foundation UG courses
UG Level 3	130	Intermediate/Advanced UG courses
UG Level 4	140	Advanced UG courses
GR Bi-level	150	Introductory GR courses
Masters Level 1	220	Intermediate GR, courses open to undergraduates on a limited basis
Masters Level 2	230	Advanced GR, open to graduate students only
Doctoral Level	250	Doctoral courses only
Clock Hour	400	Non-credit courses and activities
CEU Courses	500	Continuing education unit activities
Not Applicable	999	

## Interactive TV Home site (ITVH)

A Synchronous learning situation, occurring on campus, where the instructor teaches students sitting in the classroom at the same time students at a remote site are receiving that same instruction in real-time. Students at both sites speak with each other and the instructor during the class via the technology in place.

## Interactive TV Remote site (ITVR)

A Synchronous learning situation, where the instructor teaches students via Interactive TV in real-time from the home site. Students at a remote site are receiving that same instruction as the students at the home site. Students at both sites speak with each other and the instructor during the class via the technology in place.

## Adding, Dropping and Withdrawal from Courses

Students may add a course to their schedule during the “Add” period, which is no later than the 8<sup>th</sup> day of the semester, or an equivalent period in a session.

Students may drop courses from their schedule via S.C.O.T.S. no later than the 8<sup>th</sup> day of the semester. Courses dropped during this period will not be entered on a student’s academic record.

After the 8<sup>th</sup> day of a semester, or equivalent period in a session, students are permitted to withdraw from a course via S.C.O.T.S., and the course will appear on the student’s academic record with the grade of W (withdrawal).

A request for an official withdrawal from any or all classes after ten weeks of the semester or equivalent period in a session will be reviewed by the Dean, and, if extenuating circumstances exist, the request may be approved. If approved, a student will receive a W (withdrawal) on their academic record. No withdrawals are permitted once the final exam period has begun.

Students are advised that a withdrawal fee of \$25.00 per course will be charged after the add/drop period has ended.

## Withdrawal From All Courses

- Students wishing to drop or withdraw from all courses and leave the University are able to do so via S.C.O.T.S. system or by using the on-line total withdrawal form.
- Students who withdraw from scheduled courses during the first 8 days of a semester, or an equivalent period during a session, will be permitted to drop their classes without academic penalty; no academic record will be kept for those courses. From the second through the tenth week, or an equivalent period in a session, students who withdraw from their classes will receive a W (withdrawal) on their academic record for the courses from which they withdrew. A request for an official withdrawal from any or all classes after ten week of the semester or equivalent period in a session will be reviewed by the Dean, and, if extenuating circumstances exist, the request may be approved. If approved, a student will receive a W (withdrawal) on their academic record.
- No withdrawals are permitted once the final exam period has begun.
- Student planning to withdraw from the University under the provision of this policy are subject to the current refund policy stipulated in the University catalogue and website.
- Undergraduate students who file a total withdrawal or whose enrollment has lapsed must apply for reinstatement to return to the university after one semester’s absence. See Policy A031 for information about Academic Reinstatement.

### Procedure

Students seeking to withdraw from all courses are encouraged to carefully consider such an important decision and its impact on their academic career and financial aid status.

Students should seek the advice of their academic advisor, course instructors and other appropriate university staff prior to completing the withdrawal form or submitting the total withdrawal via S.C.O.T.S.

- The student should meet with the Financial Aid Office concerning any aid currently being received, and the impact of withdrawing from all courses. Course withdrawals may affect a student’s eligibility for current or future financial aid.
- Contact the Bursar’s Office to ascertain any account balance. Any balance should be cleared or recorded in the presence of the student. If a credit shows, assistance should be provided in filing for any appropriate refund.
- If applicable, the student should arrange to meet with Residence Life and Housing staff to sign out of the residence hall room and turn in the key within 24 hours after signing the withdrawal form/or submitting the withdrawal via S.C.O.T.S.

- The Office of Records and Registration will update student records as appropriate. All pertinent university offices will receive a weekly report of students who have processed a total withdrawal.

## Independent Study Program

The Independent Study Program aims to serve those students whose scholarly bent seems most clearly adapted to independent work. Students enrolled in the Honors Program are eligible for independent study participation. Other students are permitted to participate on the basis of recommendations from their faculty advisors and from instructors best acquainted with their abilities. Undergraduate students may not start an independent study experience before they have earned 64 credits.

Application to enroll in an independent study project should be made on the appropriate form. It is available from the department chairperson and the Office of Records and Registration. The student is to consult with his/her advisor to determine the appropriateness of the student's request for independent study. The advisor will initiate the approval process by signing the independent study application form. The completed application should then be circulated through the proper channels as indicated on the form. The approval of the School dean in which the study is undertaken is required on the form before the study is undertaken. After approval for a specified number of credit hours, the student will register no later than the last day of registration for approved Independent Study course.

Under the independent study program, the student's achievement is evaluated by the Study Committee described above. This committee will review the quality of work submitted as a result of the student's independent work in the studio, laboratory, library or in field investigation. Independent study may also cut across departmental lines; e.g., a semester of research on some phase of "Elizabethan England" might be evaluated jointly by members of the Art, English, History and Music departments, if the work submitted involves interrelated study related to each of these several disciplines. In such interdisciplinary cases, the committee would be composed of representatives from each department concerned.

The grade will be determined by the supervising instructor in all cases.

## Auditing Undergraduate Courses

1. Edinboro University undergraduate students may audit undergraduate courses, and Edinboro University graduate students may audit undergraduate or graduate courses. Auditing involves participation in a course without accountability for credit purposes.
2. Students must have the approval of their advisors and the instructors of the courses to be audited.
3. An audited course will not be counted as part of the student's academic load and no credit will be received. Audited courses will be recorded on student transcripts as "AU."
4. Students scheduling for audits will be given lowest priority for seat availability.
5. After the expiration of the "add" period, students may not change audit status to credit or credit to audit.
6. Students, with the exception of those ages 62 or above and receiving social security or equivalent retirement benefits must pay the Bursar's Office the established course credit fee for auditing courses.
7. Petitions for credit by competency examinations will not be honored for courses audited by students.

## Academic Passport

The policy of the Board of Governors of the State System of Higher Education encourages the seamless transfer of students between accredited Pennsylvania community colleges and System universities and between and among System universities. To that end, community college and System students who meet the established eligibility criteria shall be granted an Academic Passport, which shall provide entry to a System university and, pursuant to the guidelines below, ensure the transfer and acceptance of course credits.

The following sections outline the eligibility criteria for the Academic Passport and the procedures under which credits earned at one institution may be accepted by and applied to a degree program at the receiving institution.

### 1. Students Transferring with an Associate Degree

Students are encouraged to complete an Associate of Arts (AA) or Associate of Science (AS) degree program prior to transfer. Students who earn the AA or AS degree in a transfer or college parallel program from an accredited public Pennsylvania community college and who apply in accordance with the established university time frame shall have an Academic Passport that provides entry into any university in the State System of Higher Education.

System universities will recognize and honor the Academic Passport by admitting such students and shall, consistent with G.5 (Guiding Principles) apply credit towards graduation for all college parallel coursework completed for the associate degree.

Up to a maximum of 45 general education credits and liberal arts course credits earned at the two-year college shall be used to meet lower division university general education requirements, even if the receiving university does not offer the specific course being transferred or has not designated that course as general education. A course by course match shall not be required.

Capacity limits and/or higher admissions standards may apply to certain high demand academic programs.

Students transferring with an Associate of Arts or Associate of Science degree to a System university must have a 2.0 minimum cumulative grade point average (GPA) in all coursework presented for transfer from each institution attended.

Associate of Arts and Associate of Science degrees recognized for the Academic Passport must contain, as a minimum, 30 hours of liberal arts among the following fields of study: Composition/ Communications, Humanities/Fine Art, Behavioral/ Social Sciences, Biological/Physical Sciences, and Mathematics and Computer Science. Vocational, technical, and career courses shall not be used to satisfy general education requirements.

### 2. Intra-System Transfer

Incumbent System university students who have attained a GPA of 2.0 or higher in a minimum of 12 credit hours of college level coursework shall hold an Academic Passport enabling transfer to any other System university.

System universities shall recognize and honor the Passport held by incumbent students who apply within the established university time frame by providing admission upon transfer and shall, consistent with G.5 (Guiding Principles), apply credit toward graduation for all college coursework completed at the sending university.



Up to a maximum of 45 general education credits and/or liberal arts course credits earned at the sending university shall be used to meet lower division university general education requirements, even if the receiving university does not offer the specific course being transferred or has not designated that course as general education. A course by course match shall not be required.

Capacity limits and/or higher admissions standards may apply to certain high demand academic programs.

**Instruction through Distance Learning:** With the prior approval of the student's home institution, System students holding the Academic Passport shall be entitled to take any course offered through distance learning and listed in the catalogue at any other System university and have those credits and the grade earned accepted by their home institution. The home institution retains the right to determine the application of such credits toward the satisfaction of specific degree or major requirements.

### 3. Students Transferring Without the Academic Passport

Pennsylvania community college students who have not completed the AS or AA degree may also apply to and be accepted for admission to a System university. To facilitate the transfer of students with a minimum of 12 credit hours of college level coursework, up to a maximum of 45 credits in courses which have been designated and credited as general education by an accredited Pennsylvania community college shall be used to meet lower division university general education requirements, even if the receiving university does not offer the specific course being transferred or has not designated that course as general education. Students seeking to transfer course credits without the completed AS or AA degree must have a minimum cumulative GPA of 2.0 or greater in all coursework presented for transfer for each institution attended.

## Transfer Students and Advanced Standing

A student who has attended other institutions of collegiate rank and who wishes to enter Edinboro University will be expected to meet the following requirements:

1. Meet the regular admissions requirements.
2. Have on file an official transcript of the work done in all institutions attended, together with the documents listed in Admissions Procedure. The transcripts must indicate satisfactory achievement and show honorable withdrawal. Official transcripts from other colleges and universities submitted for evaluation of transfer credit must be received directly from the institution. Transcripts that are marked "issued to student" or received from the student in sealed envelopes are not official and cannot be accepted.
3. Complete at least one semester's work of satisfactory quality at Edinboro University before being assigned to student teaching. This requirement will be enforced even though students, at entrance, have completed all of the work except student teaching. No student may be assigned student teaching without having the semester hours required in his/her first field of specialization and without having taken professional courses required for certification.

Transfer credit completed by correspondence is accepted from regionally accredited institutions of higher education up to a maximum of 30 semester hours. Transfer credit is also awarded for coursework completed by correspondence for members of the Armed Forces of the United States enrolled in an approved Department of Defense program. Transfer credit is not awarded for the completion of non-academic credits such as Continuing Education Units (CEUs).

Credit to meet the degree requirements for a particular program will not be given for: 1) courses which are not equivalent to those required or approved in the curricula offered in this university; 2) courses completed at other colleges or universities in which grades below C- were earned. Academic deans may allow free elective credit to be awarded for valid academic courses for which the University has no equivalent.

Courses from accredited institutions which are designated as transferable may or may not be counted as part of the requirements for graduation. All credits of students who apply for admission with advanced standing must be approved by the dean of the school in which they will be majoring.

## Two Year Transfer (2 + 2 Agreements)

Edinboro University has transfer agreements called articulation agreements with a number of community colleges in Pennsylvania. These agreements permit a student with an associate degree designed on the basis of a baccalaureate parallel program to enter Edinboro as a junior and complete the baccalaureate in approximately two additional years. While students can often transfer most courses from a community college without pursuing a parallel program, they cannot be assured that the courses they have taken will fit the bachelor's program they wish to complete. In addition, students who enter Edinboro under an articulation agreement will receive the privileges of students who began at Edinboro as freshmen.

Successful transfer arrangements depend on proper choice of courses at the community college. The University, therefore, maintains close contact with the transfer counselors of community colleges with which Edinboro has agreements. Students who wish to attend a community college and then transfer, either before or after completing an associate degree, are urged to work closely with the transfer counselor, choose their bachelor's degree program as soon as possible, and be careful to follow an approved parallel program.

## Credits for Armed Forces Education and Veterans' Education Benefits

1. Inquiries concerning the granting of credit for work completed in the Armed Forces should be directed to the Admissions Office as soon after completion of the experience as possible.
2. University credit may be granted for work completed in formal service schools and training programs on the basis of the recommendations of the American Council on Education as published in the "Guide to the Evaluation of Experience in the Armed Forces."
3. Presentation of documentation certifying honorable discharge (member 4 copy of the DD214) may result in the award of three credits of health and physical education.

Edinboro University is an institutional member of the Service members Opportunity College (SOC) and fully supports the organization's principles and criteria for providing educational opportunities to military service members. Edinboro University also participates in the Concurrent Admissions Program (ConAP) in cooperation with the United States Army.

The Veteran's Success Center is prepared to assist all veterans with their questions and to file for the various education benefits to which they are entitled. Edinboro University of Pennsylvania continues to meet all of the criteria for approval for Veterans' Education under the provisions of Title 38, United States Code, Section 1775.

## Join ROTC and the Guard or Reserve While in College

You may be able to take advantage of a program that allows you to participate in ROTC and enlist in the Army National Guard or Army Reserve at the same time, provided a vacancy exists in either a Guard or Reserve unit. It's called the Simultaneous Membership Program (SMP). If you take advantage of this program, you'll serve as an officer in a Guard or Reserve unit and perform duties commensurate with the grade of second lieutenant. And once you are graduated and commissioned, you may continue your military service with your unit or apply for active duty in the US Army.

What's more, while you're in college you can be gaining valuable experience and earning extra income. SMPs are paid at the rate of at least a Sergeant E-5 for your Guard or Reserve service, and you'll receive an allowance for the ROTC advanced course as well.

Contact the Military Science Department for more information on veteran opportunities.

## Earning Course Credit by Examination or Evaluation

### Accelerated Means of Earning Credits

#### Intent

It is the intent of this policy to authorize alternative methods of earning academic credit at Edinboro University.

#### Policy

Edinboro University of Pennsylvania offers specific programs to assess student requests for undergraduate credits to reflect learning acquired in a non-traditional manner. Specifically, the University offers the following options: College-Level Examination Program (CLEP), College Entrance Examination Board – Advanced Placement (AP), Competency Examination Credit (internal), and Life Experience Credit (internal).

Only students who are pursuing a degree or certification at Edinboro University are eligible for credit by examination or evaluation. It is important that credit awards for prior learning be determined early in a student's career so that the subsequent course of instruction, planned with the academic advisor, can build around or upon them.

Applicability of credit to satisfy major and related requirements is at the discretion of the dean in consultation with department faculty in the student's major and/or minor. No more than 45 semester hours of credit may be earned under this policy; no more than 30 hours may be earned under any single program listed in this policy. Prior to administration of any of the above-noted examinations, students will be expected to pay appropriate fees to the University.

#### Procedures

##### College-Level Examination Program (CLEP)

Within certain limits, Edinboro University accepts credits toward graduation earned through CLEP. There are four accepted General Examinations: Humanities, Mathematics, Natural Sciences, and Social Sciences and History. Students scoring above the score recommended by the American Council on Education will be awarded credits in the appropriate achievement area.

Subject Examinations are offered in the areas of literature, foreign languages, history and social sciences, science and mathematics, and business. Each Subject Examination covers material usually taught in an undergraduate course with a similar title at most colleges and universities. Students scoring at or above the score recommended by the American Council on Education will normally be granted the number of credits equivalent to those allowed for a comparable course taught at Edinboro University. For a list of course equivalencies for approved CLEP exams, contact the Office of Adult Student Services.

If a student has taken college courses in the area(s) of achievement, duplicate credit will not be awarded. All students may take CLEP tests if eligibility requirements are met.

##### College Entrance Examination Board Advanced Placement (AP)

A student who has received a score of 3, 4, or 5 on a College Entrance Examination Board (CEEB) advanced placement test can expect that credit will be granted upon submission of test scores to the Office of Undergraduate Admissions. Normally students earning scores of 3, 4, or 5 will receive a minimum of three semester hours credit.

##### Competency Examination Credit

Edinboro University students may challenge for undergraduate credit by competency examination for courses offered by the University.

If students wish to challenge a course in which they are enrolled, they must do it prior to the end of the "drop" period. Students may not challenge courses in which they have previously received a grade. Students may not challenge courses in which they have received an audit. A student need not enroll in a course to challenge it.

To challenge for credit, a student must complete the request form and present it to the chairperson of the department offering the course being challenged. (The relevant academic dean in consultation with the faculty reserves the right to deny students permission to take examinations for credit.)

Courses passed by examination are credited to the student's academic record. Successfully challenged course(s) are not considered a part of the course load for full-time students during the academic year.

The examination for any challenged course will be administered to the student only one time. Should the student fail the competency exam, the record of the challenge will be filed in the student's academic file.

Prior to the administration of any competency examination, students will be expected to receive all approvals and pay a fee established by the University.

##### Life Experience Credit

Life experience is defined as learning experiences students have had as part of their employment or daily life, which equate with learning experiences otherwise achieved as part of coursework at Edinboro University. It is the policy of Edinboro University of Pennsylvania to award credit for life experience in those cases deemed appropriate by faculty evaluation and administrative review. Life experience credit may not be used in lieu of internship credit.

Life experience credit procedures are administered by the Office of Adult Student Services. Responsibility for the award of credit rests with the dean of the school in which the student has applied for credit.

Students who are interested in exploring life experience credit should contact the Office of Adult Student Services. If appropriate, the student submits an application and prepares a detailed portfolio describing the experience for which credit is being requested.

The office reviews the completed portfolio and sends it to the appropriate department chair. The chair directs the material to appropriate faculty for evaluation. Faculty members recommend specific credit, if any, to the dean. The dean reviews the material and the recommendations of faculty, approving or adjusting the amount of credit or courses for award, and returns the material to the Office of Adult Student Services.

The office informs the student of the life experience credit decision and ensures administrative procedures for financial and credit award transactions. If the student wishes to appeal, the office will act as the mediator between the student and other University offices. If further evaluation is deemed advisable, there will be no further cost to the student, as long as the evaluation takes place in the same field as the original evaluation.

When the processes of evaluating, awarding of credit and the fee payments are complete, the Office of Adult Student Services notifies the Office of Records and Registration of any credits to be posted to the student's transcript.

## Academic Recognition and Honors

### Dean's List

#### Full-Time Undergraduate

Undergraduate degree students who earn at least twelve semester hours of credit (exclusive of courses taken for a satisfactory or unsatisfactory grade or courses being repeated to remove D+, D or F grades) during an academic semester and who earn a grade point average of 3.40 or better for the semester are identified for that semester as Dean's List students, providing no grade of D+, D, F, I, or R is earned. **NOTE:** If I or R grades are changed within the established time limit, students will be identified as Dean's List students provided they meet the other qualifications for Dean's List recognition. This recognition of academic achievement is recorded on the transcript. The University Communications Office informs the hometown newspaper of Dean's List students of this academic recognition.

#### Part-Time Undergraduate

Undergraduate degree students who earn less than twelve semester hours of credit during an academic semester who at the conclusion of the semester have earned, since their last recognition as a Dean's List student, twelve consecutive semester hours of credit (exclusive of courses taken for a satisfactory or unsatisfactory grade, or courses being repeated to remove a D+, D or F grade) in a part-time student status with a grade point average for the twelve semester hours of 3.40 or better are identified for that semester as Dean's List students, providing no grade of D+, D, F, I, or R is earned. **NOTE:** If I or R grades are changed within the established time limit, students will be identified as Dean's List students provided they meet other qualifications for Dean's List recognition. This recognition of academic achievement is recorded on the transcript. The University Communications Office informs the hometown newspaper of Dean's List students of this academic recognition.

### University Academic Honors Convocation

The University Academic Honors Convocation is held annually during the spring semester to recognize student academic achievement. Honorees include individuals who will graduate with academic honors at the May Commencement ceremony, students completing the Dr. Robert C. Weber Honors Program, Departmental Honors Award recipients, and members of academic honor societies.

## Honors at Graduation

The University grants honors recognition at its Commencement ceremonies, the annual University Academic Honors Convocation, and on diplomas and official transcripts to those individuals who have been awarded the baccalaureate degree and have achieved excellence. The University does not grant honors for work toward the associate or master's degree. The determination of honors at the Commencement ceremonies and the University Academic Honors Convocation is based upon a student's academic record at the conclusion of the previous semester or summer session, since these events are held prior to issuance of final grades for the semester in which they are held. The determination of honors for posting on diplomas and transcripts will be based upon a student's complete academic record, including final grades issued for the semester in which the Commencement ceremony is held.

To be eligible for honors recognition at graduation:

1. A student must have attempted and earned at least 60 semester hours of credit at Edinboro University of Pennsylvania and have earned a cumulative grade point average of at least 3.40 (4.00 scale) for all credits graded on the A through F scale earned at Edinboro University. This procedure, including points 1 and 2, applies to all students, i.e.: indigenous students, external transfer students, students who earn their first baccalaureate degree at an institution other than Edinboro University and students seeking their second or multiple baccalaureate degree by Edinboro University.
2. An Edinboro University student who has earned their first baccalaureate degree at Edinboro University and who is awarded a second baccalaureate degree at Edinboro University will be eligible for honors recognition if the earned cumulative grade point average is at least 3.40 (4.00 scale) for all credits graded on the A through F scale and earned at Edinboro University.

The University does not consider grades of S (satisfactory) or AU (audit) or (1) transfer credit, (2) competency examination satisfactorily completed, (3) life experience, (4) military service experiences and (5) CLEP examinations in the calculation of cumulative grade point average.

Individuals meeting the qualifications for honors at graduation receive *Cum Laude* recognition if their cumulative grade point average is between 3.40 and 3.59, *Magna Cum Laude* if their cumulative grade point average is between 3.60 and 3.79, or *Summa Cum Laude* if their cumulative grade point average is between 3.80 and 4.00.

## Graduation Review and Commencement

### Graduation Requirements

It is the student's responsibility to apply for graduation at the appropriate time.

To be eligible for graduation in a baccalaureate degree program a student must:

1. Complete a minimum of 120 semester hours with a C average (2.00 grade point average) or as specified by degree program requirements.
2. Demonstrate minimum competency as determined by major degree program faculty.
3. All first Baccalaureate degree students will take at least 30 of their last 45 credits at Edinboro University. All first Baccalaureate students will take at least 50% of credits required for the Major from a PASSHE university. Edinboro University may require up to a maximum of 50% of the Major credits.

To be eligible for graduation in an associate degree program a student must:

1. Complete a minimum of 60 semester hours with a C average (2.00 grade point average) or as specified by degree program requirements.
2. Demonstrate minimum competency as determined by major degree program faculty.
3. Complete the last 30 credits in courses scheduled by the University.

Degree candidates desiring to pursue any part of their approved program of studies for the degree at another institution will be required to secure, in advance, written approval from the program dean in which a degree is sought. Graduating students must complete a graduation card with the Office of Records and Registration during the "add" period of regular (fall and spring) semester or by the established deadline for summer or intersession graduation.

Any student applying for graduation must complete all requirements including I and R grades, within two weeks of the graduation date. If all requirements are not completed within this two-week period, the student must reapply for graduation when the degree requirements have been met.

## Graduation Review

To ensure that graduation requirements are met, students will consult with their advisors during or prior to the scheduling period at least two semesters before anticipated graduation. The process of planning to follow a curriculum leading to graduation should begin when the student enters the University. However, the further a student has progressed requires increasing diligence related to ensuring that program requirements are completed. By undertaking this review, the remaining graduation requirements and a program of studies will be identified thus enabling students to graduate on a timely basis.

## Policy for Students Entering into or Leaving Associate Degree Programs

1. Students interested in entering Edinboro for the first time, both freshmen and transfers, must submit an application for the degree program of their choice (one only) to the Admissions Office. These students must meet the admission requirements established by the University for the program they choose.
2. A student from another institution of higher learning admitted to an associate degree program offered by Edinboro must earn a minimum of 30 semester hours of credit within program requirements at Edinboro before the degree will be conferred.
3. A student who has been admitted to the University in a program of his/her choice and then wants to select another program, must process a change of curriculum form according to established policy.
4. A student expecting to graduate at a particular commencement must be admitted into the program for which he/she seeks a degree no later than nine weeks prior to that commencement.
5. A student who has had the associate degree conferred upon him/her by Edinboro, and who then wants to continue enrollment at Edinboro for the purpose of earning a baccalaureate degree, must apply with the Office of Records and Registration for a second degree.
6. A student who has earned a baccalaureate degree at Edinboro and who wishes to pursue an associate degree program at the University, must apply with the Office of Records and Registration, and, if admitted, must earn a minimum of 15 additional semester hour credits and meet the requirements of the program.
7. If a student who has been enrolled in a baccalaureate program and who has attained upper division status (junior or senior level), decides he/she wants to take an associate degree and leave the University, he/she must follow appropriate procedures, listed in Items 3 and 4.
8. Exceptions to any of the above regulations may be made only with the approval of the provost/vice president for academic affairs.

## Earning a Second Baccalaureate Degree

Graduates of Edinboro University, or of another accredited college or university, who wish to earn a second baccalaureate degree, must earn at least 30 additional credits by enrollment in courses at Edinboro University which are approved by the department in which the second degree is earned. Students must also meet any other degree requirements of the department in which the degree is earned.

## Commencement

Edinboro University holds commencement ceremonies in December and May. The dates of commencement are established by the President. Attendance at commencement is not mandatory. Individuals who complete degree requirements during a summer session preceding the December commencement ceremony will receive their diploma by mail as soon as their requirements are complete. These individuals are also invited to participate in the ceremony. Individuals who complete degree requirements during fall semester will participate in the December commencement. Individuals who complete degree requirements during spring semester will participate in the May commencement ceremony. Diplomas will be mailed to students following official verification of completion of degree requirements.

When extenuating circumstances warrant, the provost of the University may permit an individual who will be completing degree requirements during intersession or summer session to participate in the relevant commencement ceremony even though degree requirements have not been met. However, the individual will not receive a diploma until the degree requirements have been completed. Applications are available in the Office of Records and registration and must be submitted by November 1 for winter, or April 1 for spring.

Due to the limited availability of seating, a percentage of the total faculty is asked to participate in the commencement ceremony. Department chairpersons designate the individuals who will represent their departments. Faculty members who participate in the commencement may obtain academic attire through the Campus Bookstore."

## The Military Science Department: Home of the Edinboro US Army Reserve Officer Training Corps (ROTC) Fighting Scots Battalion

### General Information

Army ROTC is one of the premier leadership training programs in America. The Edinboro Military Science is a challenging and flexible program that can be tailored to any individual student; especially those in their freshman and sophomore years. Freshmen and sophomore students incur NO MILITARY OBLIGATION for taking these courses. Military Science is open to all students who want to learn about leadership, the military, and career opportunities for officers. The objective of the program is to develop adaptive leaders who are qualified to be officers in a global, high-tech organization responsible for the national security of the United States. Upon successful completion of the entire program, graduates will have an opportunity to serve their nation in the Active, Reserve or National Guard forces of the United States Army. The Edinboro University Military Science Program has prepared hundreds of college students for successful careers and commissioned over 200 Army officers since 1973. Military Science instruction is offered on campus through the Military Science Department located in Hendricks Hall, room G-11. Two- and four-year programs are offered, both of which lead to a commission as an officer in the United States Army. Most students take one course per semester of the basic course program (freshman and sophomore years), and one course per semester of the advanced courses (junior and senior years).

Uniforms, equipment, and textbooks required for Army ROTC classes are supplied by the Military Science Department. A listing of these courses can be found under the Military Science Department in the Edinboro schedule of classes.

### **Incentives**

Enrolling in Military Science courses adds up. Students who complete the freshman and sophomore classes (MILS101, MILS102, MILS201, and MILS202) receive credit for the mandatory one credit physical education “activity” course. A waiver of overload tuition fees is available when taking a MILS course in addition to your full semester load. All courses count toward your GPA as free elective courses. Students enrolled in the Military Science program receive instruction in the fundamentals of leadership with emphasis on self-discipline, integrity, confidence and responsibility. This enables the student to evaluate situations, make decisions and develop those attributes considered essential to a leader in either the civilian or military environment. Four-year, three-year and two-year merit based scholarships are available. All contracted students in the program will receive a monthly tax-free subsistence allowance. Freshmen receive \$300, sophomores \$350, juniors \$450 and seniors \$500 monthly while enrolled as full-time students.

### **Degree Credit at Edinboro University for Military Science Classes**

Of the minimum 120 semester hours needed for graduation, up to 18 semester hours are allowable toward graduation for Military Science courses in the free elective area of a particular major (which includes credit for health and physical education). Cadets that contract with ROTC must also complete a 3 credit class in Military History in order to commission as a Second Lieutenant in the United States Army.

### **Program of Instruction**

The Department of Military Science offers both a four-year and two-year program of instruction. Students qualify for entry into the advanced ROTC course (two-year program) (juniors, seniors, graduate students) in three ways:

1. On-campus courses: Most students take the introductory Military Science courses, of the basic Military Science program, on campus during their freshman and sophomore years. These courses allow them to participate in adventure training, and to learn about the opportunities and responsibilities of being an Army officer without incurring any obligation.
2. Summer programs: Students may also qualify through a paid, five-week, summer training session held at Fort Knox, Kentucky, which provides intensive military training equivalent to the instruction received by freshmen and sophomores in the basic course program.
3. Advanced placement: Students with any prior military service, members of the United States Army Reserves or National Guard, or former Junior ROTC members may qualify for advanced placement into the advanced Army ROTC program.

### **Two-Year Program**

Available to qualified full-time students (generally having a minimum of two academic years remaining to degree completion) who meet the criteria set forth in items two or three above. Application for this program should be made prior to the end of the spring semester of the sophomore year for those students not previously enrolled in Military Science instruction. This program is also available for accepted graduate students.

### **Four-Year Program**

Consists of attending the freshman and sophomore courses; students can begin as late as the fall semester of their sophomore year if

approved by the department chair. Enrollment in the first four courses of Military Science is accomplished in the same manner as any other college courses and carries no military obligation for non-scholarship students. Application to enroll in the advanced Military Science courses should be made while enrolled in Military Science 202. Each student is required to complete a paid, five-week Advanced Training Camp at Fort Knox, Kentucky, normally after completing Military Science 302, in their junior year. Transportation, food, lodging, and medical and dental care are provided in addition to base pay of about \$950.00.

### **US Army ROTC Scholarships**

There are significant scholarship opportunities for Military Science students. Scholarships pay up to full tuition and fees in state and out of state, \$1,200 for books, and up to \$5,000 for spending money each year. These scholarships are merit based and not affected by a parent’s total income. Freshmen and sophomores can apply for four-, three- and two-year campus-based full scholarships during the school year. Historically, 85 percent of Edinboro University of Pennsylvania students who apply are scholarship winners. The Department of Military Science on an annual basis provides the ROTC students scholarship availability and criteria. All contracted scholarship winners will receive a monthly tax-free subsistence allowance. Freshmen receive \$300, sophomores \$350, juniors \$450 and seniors \$500 monthly while enrolled as full-time students.

### **US Army Reserve (USAR) and Army Nation Guard (ARNG) Scholarships**

The USAR and ARNG also offer scholarships that will guarantee the recipient service as an Army Officer in the USAR or ARNG. These scholarships are designed to appeal to leaders who desire to serve our country as an Army Officer on a part time basis and who also want to utilize their academic degree within the civilian market and or live locally in or around their hometown. The ARNG offers two types of scholarships, the Dedicated ARNG Scholarship which can pay up to three years of education benefits and the Guaranteed Reserve Forces Duty (GRFD) Scholarship which can pay up to two years of education benefits. The USAR only offers the GRFD scholarship. Both types of scholarship education benefits are full tuition and fees in state and out of state, \$1,200 for books a year and up to \$5,000 for spending money each year.

### **Edinboro ROTC Room and Board Scholarships**

When funds are available Edinboro University ROTC awards Full and Partial ROTC Room and Board Scholarships to students who desire to fully participate in the ROTC program. These scholarships are specifically available for students who are seeking information and experience about the opportunity of becoming an Army Officer WITHOUT any obligation or commitment associated to the Army.

- All scholarships are re-allocated each year
- Must live in ROTC Housing – Rose Hall
- Must utilize the “#14-meal plan” which includes \$350 flex dollars.
- There is no obligation or commitment to the Army
- Must fully participate in all ROTC activities

### **Curriculum**

Military Science curriculum for a student enrolled in the four-year program offers a total of 18 credit hours. A complete listing follows:

#### **Freshman**

Fall Semester:

MILS101 Introduction to ROTC (1)

Spring Semester:

MILS102 Introduction to Leadership (1)

**Sophomore**

Fall Semester:

MILS201 Self/Team Development (2)

Spring Semester:

MILS202 Individual/Team Mil Tactics (2)

**Junior**

Fall Semester:

MILS301 Leading Small Organizations (3)

Spring Semester:

MILS302 Leading Small Organizations II (3)

**Senior:**

Fall Semester:

MILS401 Leadership Chall/Goal Setting (3)

Spring Semester:

MILS402 Transition to Lieutenant (3)

## Academic Resources, Services and Special Programs

### Academic Success Center

The Academic Success Center supports and enhances the academic development of students at Edinboro University. Through proactive, intentional, and innovative programs, the Academic Success Center designs opportunities for students to achieve their academic goals.

- The Academic Success Center, as part of University-wide effort to improve student success, retention and graduation goals, provides:
- Academic Success Coordinators offering individualized and group experiences to build skills in study strategies, including time management, test-taking and note-taking
- Collaboration with faculty to provide support for students exhibiting academic difficulties
- Academic advising of all undeclared majors on campus, including exploration of opportunities within degree programs
- Provisional Admission Programming through the Academic Enrichment Program

### Academic Enrichment Program

The Edinboro University Academic Enrichment Program (AEP) is a learning community for conditionally enrolled first year students. Students admitted to AEP are academically supported through a comprehensive learning program. This program supports students with rising potential who do not meet the university's standard admission requirements. Students in the program establish friendships while participating in study groups and supplemental instruction. AEP at Edinboro University recruits the finest instructors to teach in the learning community and has been successful in strengthening the academic skills of participating students.

Students will take two courses with the same group of students designed to build skills for effective study and learning strategies. They will also be assigned an academic success coordinator who will provide academic support, encouragement, and monitor student progression. AEP students are admitted into our undeclared major to permit the full exploration of options at Edinboro University that best aligns with the students' academic strengths, interest, and long-term goals. Students who complete the program requirements will advance, declare a major, and receive full admittance to Edinboro University.

### Peer Tutoring

A variety of tutoring services are available to Edinboro University students. Qualified peer tutors are employed through the academic departments to help students gain clarification on concepts covered in classes, and their text assignments, and to offer suggestions for developing and improving specific study skills. In some cases, faculty and administrators also volunteer time to tutor students.

In addition, the University offers on-line tutoring through a program called Smarthinking Online Tutoring provides web-based tutoring that supplements EU's existing peer tutoring. It's online tutoring and homework help for core courses and skills up to 24 hours a day, 7 days a week.

Students can access live tutorials in writing, math, business, IT and science, as well as a full range of study resources including writing manuals, sample problems, research tools and study skills manuals. Students can access the service from their student account through D2L.

Tutoring schedules indicating subject, time, day(s) of the week, and location are available on the Academic Success Center Website or by using the keyword tutoring.

### Undeclared Advising

Each undeclared student is provided with a faculty advisor with the background and skills necessary to help the student in their search for their academic major. The academic advisor serves as the student's first point of contact on matters pertaining to registration, schedule changes, and other academic procedures. In addition, Academic Advisors also provide services that encourage students to explore their academic and career options to support the timely selection of an appropriate major. Special events, such as the Fall Majors Fair and Spring March Madness for Majors, provide opportunities for undeclared students to meet faculty and students from different majors and learn more about career opportunities. The undeclared advisors work closely with the Center for Career Development to make sure that students are comfortable and confident with their choice of major. Undeclared students are required to declare a major by the time they complete 45 credits.

### University Internship Program

Edinboro University of Pennsylvania recognizes that experiential learning is a valuable tool in helping students to make career decisions and in complementing formal classroom learning.

Students enrolled in baccalaureate programs who are placed in an internship must have completed a minimum of 60 semester hours with at least 15 of these hours having been completed at Edinboro University. Undergraduate students enrolling for internships must have earned a minimum overall GPA of 2.0 and minimum GPA of 2.5 in their major. Students enrolled in graduate internships must have earned at least 15 semester hours of graduate credit prior to registration for internship and have met any selection criteria established by the department responsible for supervision of the internship. Students who are interested in internship experiences are encouraged to contact their academic department internship coordinator, or the Center website for more information.

### Performing Arts Series

The mission of the Office of Performing Arts is to promote the live performance of musical and performing arts. Sponsored by the Edinboro University Student Government Association and Edinboro University of Pennsylvania, the Performing Arts Series provides as diverse a programming schedule allowed by available funds.

Committed to the University's 21st "Century of Civility," Performing Arts provides programs that reflect this motto and elevate the arts at Edinboro. The Performing Arts Office is located in the Diebold Center for the Performing Arts, phone 814-732-2518.

### **The Porreco College of Edinboro University**

Located in nearby Millcreek Township, the 27-acre Porreco College is just 19 miles north of the Edinboro University main campus. Named for Erie businessman Louis J. Porreco, the property was donated to the University as part of the University's first capital campaign in 1986.

Serving as "the community's college," the facilities and support services at Porreco College serve to centralize and expand outreach programming in the greater Erie area, while offering excellent educational opportunities for undergraduate students. Day and evening courses are offered each semester and in the summer contributing to first-year general education requirements for many associate and bachelor degree programs. An alternative admissions offer, The College Start at Porreco program, is for students who might not be ready for the full rigor of the main campus. Additionally, the Porreco Center is a host site for Erie County GED preparation classes.

Degree programs currently include an AS in Business Administration, an AA in Liberal Studies or Human Services-Social Services, an AAS in Applied Technology, and a Certificate in Customer Relations Management. Additional program development is being explored for other areas such as public safety, aeronautics, wastewater management, physical therapy assistant, emergency medical technology, green energy, and transportation/logistics.

The cost of attendance at Porreco College is less because we don't charge many of the fees associated with main campus. Additionally, students who live in Erie County and attend Porreco College full-time in one of the above named programs can be eligible for The Porreco Promise, which provides funding over and above a financial aid package, possibly covering all remaining expenses.

The wide range of services at Porreco College allows students to register, meet with Admissions, communicate with the Financial Aid Office and the Office of Records and Registration on main campus, attend classes and more – all without leaving the grounds. The two computer labs host classes and open lab hours for Edinboro students and employees. Porreco College also has distance education capabilities for classes, meetings, and workshops. Also, with a student ID all EMTA bus routes are FREE to ride, including a shuttle to/from main campus. Questions about Porreco College can be addressed to the on-site administrator at 814-732-2544 or 814-836-1955.

### **The Office of Continuing Education**

The Office of Continuing Education provides professional development courses, personal enrichment activities, and customized programs for the community.

These activities, conferences and experiences are designed to meet the personal, professional, and organizational interests and learning needs of individuals, organizations, and businesses in the region and beyond. A wide range of continued learning activities are provided through seminars, workshops, courses, and training using University expertise and resources. In addition, the University partners with ed2go and Gatlin Education to provide online short training courses and career development programs. These online programs can be accessed anywhere.

The community is encouraged to contact the coordinator of non-credit programs at 814-732-1420 to rent University facilities or to inquire about any cooperative learning ventures.

### **Dr. Robert C. Weber Honors Program**

The Dr. Robert C. Weber Honors Program provides opportunities for higher ability students to extend their intellectual and creative talents beyond conventional university offerings. It is an elite academic program that is designed for students who choose to enrich their University studies through directed, self-directed, and independent activities commensurate with their abilities. Motivated students have ample opportunities to develop independence and initiative, and to work closely with outstanding university professors.

The program is available to qualified students enrolled in a baccalaureate degree program. Students interested in the challenges and rewards of an honors program are invited to apply. The University has developed a scholarship program to assist students enrolled in the Dr. Robert C. Weber Honors Program.

Honors graduates receive special recognition at the Celebration of Excellence and Commencement ceremonies. Their transcripts and degree diploma indicate that they have completed the Dr. Robert C. Weber Honors Program.

Honors students in good standing receive preferential scheduling privileges. They also have the opportunity to secure on-campus housing in the building where their program and related facilities are housed.

Honors students are encouraged to study abroad and are given the opportunity to apply each year for two full scholarships that are available for the Pennsylvania State System of Higher Education Summer Honors Program. Additional study abroad experiences are available each year.

The Dr. Robert C. Weber Honors Program is a member of the National Collegiate Honors Council.

Additional information may be obtained by contacting the director of the Dr. Robert C. Weber Honors Program, located in 103 Earp Hall, 814-732-2981.

### **Pre-Professional Programs**

Students intending to enter advanced or post-baccalaureate study in law or the healing arts are provided special advisement and assistance at Edinboro University. While most professional schools do not require that a student receive a degree in a specific field, such professional education does require specific coursework and competencies. Certain degree programs are more often associated with preparation and background for specific professions. For instance, a degree in political science is usually associated with preparation for law school. So too, a degree in biology or chemistry is associated with preparation for professional schools in the healing arts. However, one does not have to major in a specific field to be admitted to a particular professional school. For these reasons, Edinboro University provides an advisor for students seeking advice and direction in preparation for seeking admission to professional schools. Students who indicate a desire to pursue a specific pre-professional program are assigned to advisors specializing in assisting students pursuing a specific pre-professional goal along with their degree program.

Information concerning pre-law study is provided at the end of the Political Science and Criminal Justice Department section and is identified in the index. Information concerning the pre-healing arts is contained within the Biology Department section and is identified in the index.

## Baron-Forness Library

Baron-Forness Library is a progressive and dynamic resource committed to supporting the curricular and research needs of Edinboro University. As the largest academic library in the region, Baron-Forness provides information resources and services to members of the University community and to the residents of northwest Pennsylvania, ever mindful of the challenge of change in an information-driven environment.

University faculty and students are increasingly aware of the challenges presented by the pace of technological development and explosion of information. To meet these challenges, the Library provides access to online indexes, electronic books, full-text journal databases, reserve materials, multimedia, software, and equipment. As such, many of the important indexes and databases in the various academic disciplines are accessible from any networked or Wi-Fi enabled devices. The vast majority of the Library's electronic offerings are also available remotely to meet the needs of the growing number of commuter and distance education students.

The Library's catalog provides a web-based resource for identifying and locating books, periodicals, media, and other resident materials. Along with the search functionalities, this sophisticated tool enables library users to access their library accounts and renew materials online. The library's "Discovery" search tool enables library users to search across multiple resources simultaneously with an easy-to-use Google-like search box. The Library recently unveiled a smartphone application called "LibAnywhere" which enables library users to use the features of the library catalog on their mobile devices. Additionally, library users have access to the online "EZBorrow" shared library catalog to access materials from 60+ academic libraries in the region.

As information continues to become increasingly reliant upon delivery by electronic means, the Library's home page (<http://www.edinboro.edu/departments/library/>) is the primary vehicle for keeping up with the many exciting changes occurring in the Library. Along with the resources mentioned above, the Library also offers many web-based services via the web including chat reference service and faster interlibrary loan service.

To aid in the use of Library resources, library faculty are available seven days a week to provide research assistance. Library faculty also teach research techniques through classroom presentations and workshops. For assistance with term papers and writing assignments, students can visit the University's Writing Center on the second floor of the Library. The Library also contains two heavily used computing facilities with a total of 70 networked PCs loaded with standard productivity software and. Both black and white and color printing are available in these labs. In addition to the desktop PCs, the library recently deployed 12 laptop computers that can be checked out and used by students anywhere in the building.

The library is organized to allow students and faculty easy access to library materials. The open stack plan allows researchers direct access to the book and journal collection. University archives and special

collections spaces are staffed and open to the public. A wireless network is available throughout the building to ensure ready access to electronic resources. Group study spaces, classrooms, and A-V previewing rooms are also available. Ample space is provided for individual study with both tables and private carrels. A coffee bar is available on weekdays for drinks and other refreshments.

## Technology and Communications

With state-of-the-art facilities and services, Edinboro University of Pennsylvania is sure to meet all of your technology needs. Read on to discover the many technological resources available to you as an Edinboro student.

### Academic Resources

- Students can access 60 computer labs with a variety of hardware and software. A number of academic departments operate their own computer labs in conjunction with the University-wide Technology and Communications operations. One lab is available for use overnight. All computer labs are connected to the campus network and the Internet.
- Some of the many resources for students to improve their computer skills include help sheets, web-based information, and computer lab assistants.
- The campus features over 150 technology enhanced classrooms, which include cutting-edge teaching and learning resources. Most of these classrooms include a "smart podium," a specially equipped desk that enables faculty members to operate computer and audio-visual equipment from one location. Two distance education classrooms link to a number of learning sites in the area, as well as the State System central office in Harrisburg and other State System universities for multipurpose videoconferencing.
- Many courses have web-based supplements, and Edinboro University offers a growing number of web-based courses and programs.

### Co-Curricular Resources

StudentNet is the term we use for technology services provided for students living in the residence halls. We provide internet connections, cable television service, and technicians who are available to assist students with their technology needs. All residence housing is wired for high-speed data connections, digital satellite cable television service, and all have wireless internet. Although telephone service is not available in the units, courtesy phones are provided in each hallway.

Wireless internet access is available in all areas frequented by students including classroom buildings, the library, student lounges, dining areas and the Frank G. Pogue Student Center.

The Student Technology Help Center is located in the lobby of Centennial Hall. It was created to provide assistance to students in meeting their technology needs. All students may receive assistance with technology issues by stopping in, calling, or scheduling an appointment with one of our trained student technicians to come to their residence hall room. Services available to students include:

- residence hall internet and cable television
- network, email, S.C.O.T.S. account help
- wireless connectivity assistance
- assistance with ensuring your computer is up-to-date with the latest updates, hot fixes, patches, antivirus & security
- computer hardware sales & service



### **Student Resources**

- Students are provided e-mail accounts and network storage space for their academic files. Their e-mail can be accessed via a web browser at any time and from anywhere in the world. Their network storage can be accessed from any computer connected to the campus network.
- The MyEdinboro Mobile Community is the first component of the Edinboro University mobile strategy to roll out mobile aware versions of our web presence as well as future MyEdinboro and [www.edinboro.edu](http://www.edinboro.edu) mobile apps. Once signed in, MyEdinboro provides portlets for Messages, the campus calendar, University News, S.C.O.T.S., Student Jobs, and more!
- With S.C.O.T.S., our Student-Centered On-Line Transaction System, students can register, add and drop classes, view their academic history, grades, and conduct other University business.
- Students can access their financial aid and bill via S.C.O.T.S. and pay their bill with a credit card.
- Information such as course schedules, course descriptions, and student handbook are available on the University's web site.

### **Student Computer Recommendations**

- While students have access to a wealth of computers located in strategic locations on campus (such as library, residence halls and academic buildings) they may wish to consider purchasing their own computer for convenient and instant access. For specific recommendations, contact your department for computer configurations and any special equipment suggestions.

For more information on technology at Edinboro, please call Technology and Communications at 814-732-2111.

### **Other Services**

The Reading Clinic is offered by the Masters in Reading Program through the Department of Early Childhood and Reading as part of the READ 712 Reading Clinic course. The Clinic's primary purpose is

to train reading specialists at the graduate level to operate in a clinical setting under the direct supervision and guidance of the Reading faculty. The Reading candidates work with children who may have a variety of reading difficulties.

**The Governor George M. Leader Speech and Hearing Center** provides assessment and treatment services for individuals with communication disorders. A wide range of services are provided for children and adults with needs in the areas of articulation/phonology, accent reduction, augmentative and alternative communication, fluency, voice, receptive and expressive language, cognition, and swallowing. Clients are seen on a regular basis and are accepted from within the University, public and parochial schools, hospitals, nursing homes, and the community at large.

The Leader Speech and Hearing Center is a fee-for-service clinic providing services at a reasonable cost. A reduced rate, based on a sliding fee scale, is available for those with low income and/or extreme financial hardship who meet the qualifying guidelines.

All clinical activities are supervised by faculty holding the Certificate of Clinical Competence in Speech/Language Pathology or Audiology from the American Speech-Language-Hearing Association and a Pennsylvania license.

Any interested student or University employee may obtain additional information by contacting the Leader Speech and Hearing Center Office at 814-732-2433.

**Learning Technology Services**, located in the lower level of Ross Hall, provides a variety of services to students, faculty and staff. Falling within the framework of the Technology and Communications Division, the Office provides loan of instructional technology including camcorders, projectors, audio systems, as well as technical support of videoconferencing technology. The Office also provides expertise in the area of audio-visual, and video equipment recommendations and specifications, and other numerous services to faculty and staff including technology training and access to instructional hardware, software, and classroom technology support.

# ACADEMIC AFFAIRS CURRICULA AND ORGANIZATION



EDINBORO  
UNIVERSITY

# CURRICULA AND ORGANIZATION

## Introduction

The Academic Affairs division of Edinboro University provides undergraduate degree programming through The College of Arts and Sciences, the School of Business, and the School of Education. The departments and instructional programs of the University are organized within these schools and are so listed herein.

Graduate programming is provided and administered through these schools. Information on graduate standards, procedures and programming is provided in a separate graduate catalogue available through the Office of Graduate Studies.

## General Education/Liberal Education Curriculum

General Education is the part of the undergraduate experience that crosses all boundaries. It is that which unifies otherwise distinct and often rival factions within the institution.

As such, General Education is concerned with addressing a number of issues that have become increasingly troublesome in recent years. First is the general deterioration of students' basic skills. These include the ability to read with understanding in broad areas of knowledge, to write effectively on a variety of subjects, and to be sufficiently adept at mathematics to develop and follow lines of argument containing mathematical content.

In addition to the basic skills, General Education is concerned with ensuring that students should acquire not only a certain breadth in what are traditionally called the liberal arts, but also some depth outside their major.

Along with, and in support of, these general thoughts, the following specific goals for a General Education program have been developed:

All students earning an undergraduate degree at Edinboro University must complete General Education requirements as outlined below. It is especially important for students to understand these General Education requirements and their relationship to the courses required in academic majors or required as related courses. It is critical that students work closely with advisors to ensure that courses selected for general education appropriately match other degree requirements. The General Education component of the undergraduate curriculum is the unique contribution to the education of its students by an institution.

General Education at Edinboro University is truly a Liberal Education that is imbued with the principles of LEAP, Liberal Education America's Promise. For many years, General Education has really incorporated many of the attributes of the LEAP model through its emphasis on writing, critical thinking, analysis, and assessment. Beginning in 2011-2012, the institution has been working to rethink and refocus its approach to a Liberal Education by more fully adopting LEAP. Liberal Education combines the fundamentals provided in a General Education curriculum while connecting to the major. Learners, including faculty, staff, and students, must recognize that a Liberal Education experience is the whole experience of the university including General Education, the major, extracurricular, and co-curricular.

LEAP Promotes:

- Essential learning outcomes—as a guiding vision and national benchmarks for college learning and liberal education in the 21st century
- High-Impact educational practices—that help students achieve essential learning outcomes
- Authentic Assessments—probing whether students can apply their learning to complex problems and real-world challenges
- Inclusive Excellence—to ensure that every student gets the benefits of an engaged and practical liberal education. (<http://www.aacu.org/leap/vision.cfm>)

## Creating a Culture of Assessment

Like their public school counterparts a century ago, today's colleges and universities are under increasing pressure to provide practical knowledge and vocational skills. In part, this is in response to increased credentialing requirements for many fields as well as the continual transitions of disciplines and careers emerging in our modern economy. As a result, "Higher education is coming under scrutiny as students and others examine practices, policies, missions, and outcomes."<sup>1</sup>

A direct result of this increased scrutiny and the shift from "traditional" arts and sciences programs to more "practical arts" programs is an increased emphasis on curricular assessment. The Association of American Colleges and Universities responds to this need in its statement on General Education:

*A quality general education is an essential part of every undergraduate student's experience and should reflect an institution's core academic commitments. In the ideal, general education outcomes are achieved through a coherent sequence of dynamic learning experiences, in general courses and in students' majors, and through curriculum-embedded assessments tied to important educational goals. In the ideal, general education is everyone's shared concern.<sup>2</sup>*

Reflective of educational changes and competition for student populations, colleges and universities have begun to restructure their curricula. Perhaps the best evidence of this trend is the consensus among regional accrediting bodies that higher education needs to place greater emphasis upon assessment. As part of this restructuring process, many institutions are attempting to embed an assessment component into their curricular process as an initial step toward meeting the growing demands for accountability and establishment of a culture of assessment.

With this in mind, after the Middle States visit in 2003, Edinboro University of Pennsylvania set about to assess its General Education curriculum. The model which emerged reflects recommendations generated from assessment data collected over a seven-year period. The process which included collaboration, dialogue, and cooperation among faculty and disciplines recognizes that courses and educational objectives are not static and that curricula and institutions need to change in order to better meet the emergent needs and expectations of students and society. It also represents a significant first step toward creating an ongoing, systematic culture of assessment on this campus. Indeed such curriculum-embedded assessment fully engages faculty and leadership as they gather data about student progress and make informed recommendations accordingly for academic change.

Additionally, the mission of an institution and its general education curriculum must be complementary. The mission of Edinboro University of Pennsylvania adopted in 2009 encourages educational coherence and broad exposure for its life-long learners:

*Edinboro University: A community where intellectual engagement and opportunity challenge and empower individuals. We are inspired to serve and lead as active citizens of our global society through collaborative learning experiences emphasizing campus activities, community outreach, and practical applications. These factors combine to ignite the excitement of discovery and create a thirst for life-long learning and a pursuit of excellence.*

Incorporating the University's mission and representing an important first step to creating a culture of assessment, the General Education curriculum at Edinboro University of Pennsylvania provides evidence of what AAC&U (Association of American Colleges and Universities) considers the principles for effective General Education programs:

- Response to the need for General Education
- Inclusion of the institutional mission
- Engagement of faculty and administration in academic coherence, dialogue, assessment, and self-reflection
- Attention to broad range of student experiences that include social responsibility and co-curricular opportunities

Changes which appear in Edinboro University's new General Education model include:

- The incorporation of specific objectives for computer competency courses;
- A recognition of the need for a stronger information component as well as of discipline-specific writing and research needs as evidenced in the revised research/writing skills' requirement;

Changes to various Core area objectives;

- A requirement for a lab component for all Core 7 courses;
- Expectations for more clearly articulated ways in which General Education objectives are being addressed in Core and Distribution courses.

By continuing to monitor the General Education curriculum and making subsequent academic changes, Edinboro University recognizes emergent needs and expectations in the societal shift from the "Industrial Age" to the so-called "Information Age" or the "Knowledge Society." It also reflects an awareness of the paradigm shift from "teaching" to "learning" and the desire to foster student success in the classroom and beyond.

#### Sources

<sup>1</sup> Craig, C. M. (2004). Higher education culture and organizational change in the 21st century. *Community College Enterprise*, 10(1), p. 80.

<sup>2</sup> Association of American Colleges and Universities (2002). *Greater Expectations: A New Vision for Learning as a Nation Goes to College*.

### General Education Goals

1. To provide a broad base of knowledge.
2. To provide a basic understanding of the traditions underlying western and non-western civilizations.
3. To stimulate imagination and creative thinking through art, music, drama, and literature, and scientific investigation.
4. To provide philosophical and practical foundations for ethical, social, and civic decision making.
5. To provide knowledge of natural, behavioral, and social sciences.
6. To develop effective communication skills in social and global contexts.
7. To develop analytical thinking skills.
8. To develop a sense of self and of community.
9. To develop an awareness of healthy lifestyles.

10. To develop mathematical, computer, and quantitative skills.

Rather than seeking to achieve these goals solely in separate and discrete courses or disciplines, Edinboro University's general education program offers instruction that addresses these goals in a variety of approaches, throughout and across the curriculum.

### General Education Requirements for Baccalaureate Degrees

- A. Skills 12 sem. hrs.  
On the basis of an analysis of academic history, incoming students will be placed into MATH104, a developmental course, or a higher-level mathematics course appropriate to their specific program of study. Based upon academic history, incoming students will normally be placed in ENGL101/102, but those who have performed at a high level of skill in English will be placed in the ENGL103/104 sequence. Students may fulfill the computer competency requirement by completing CSCI104, testing out of CSCI104, or completing a discipline-specific computer competency course approved for the major. Testing will be conducted at various times through the summer and academic year. Students testing out of CSCI104 may use these three semester hours to pursue other curricular requirements. Developmental courses in mathematics and writing may be required in order to advance to Skills courses, to enter major programs, or to attain upper class standing.

1. ENGL101 College Writing Skills or 3 sem. hrs.  
ENGL103 College Writing Skills Advanced 3 sem. hrs.
2. ENGL102 Specialized College Writing and Research Skills or  
ENGL104, Specialized College Writing and Research Skills Advanced 3 sem. hrs.
3. MATH104 Finite Mathematics or higher \* 3 sem. hrs.
4. Computer Competency \* 3 sem. hrs.  
CSCI104 Essential Computing I  
OR Discipline-specific computer competency course  
\*(as stated in the text under skills)

- B. Core 21 sem. hrs.  
The Core consists of lower level general education courses intended to provide a broad base of common knowledge.

Three semester hours are required from each of the following categories. Separate courses must be taken to satisfy each Core requirement.

1. Artistic Expression 3 sem. hrs.  
Objective: Knowledge of historical, cultural, and aesthetic elements for artistic expression by developing an understanding through practical and theoretical studies in art, music, literature, and/or drama.
2. World Civilizations 3 sem. hrs.  
Objective: Knowledge of fundamental ideas, institutions, and values that have shaped world civilizations.
3. American Civilizations 3 sem. hrs.  
Objective: Knowledge of fundamental ideas, institutions, and values that have shaped American civilizations.
4. Human Behavior 3 sem. hrs.  
Objective: Knowledge of human development, behavior, and communication at individual and collective levels, including cognitive processes.
5. Cultural Diversity and Social Pluralism 3 sem. hrs.

Objective: Knowledge of diverse ways of living and thinking that are rooted in cultural, ethnic, racial, gender, and social differences.

6. Ethics 3 sem. hrs.  
Objective: Knowledge of the practical, ethical dimensions of personal, social, and professional decisions.

7. Natural Science 3 sem. hrs.  
Objective: Knowledge of science, and of the fundamental elements of the scientific processes in biology, chemistry, geology, or physics.

- C. Distribution 9 sem. hrs.  
The Distribution category consists of, usually upper level, courses that build upon the broad base of knowledge established in the Core and Skills. No course required in the major may be included in meeting the distribution requirements; however, related courses required for the major may be included. This requirement will ensure depth in one area outside the major area of study.

1. Humanities and Fine Arts  
(Art History, Communications, English, Foreign Languages, Music, Philosophy, and Theater)
  2. Social and Behavioral Sciences  
(Anthropology, Economics, Geography, History, Political Science, Psychology, and Sociology.)
  3. Natural Science and Mathematics  
(Biology, Chemistry, Computer Science, Geology, Mathematics, and Physics)
- TOTAL 42 sem. hrs.

## Goals/Objectives for General Education

### SKILLS

The courses in the skill area of the general education curriculum provide a foundation for students during their education at Edinboro University of Pennsylvania. Because these courses serve as a foundation, students take these courses within their first 45 credits. A student completing courses in the skills area will:

- 1) Acquire skills to conduct library and Internet research;
- 2) Develop skills to document source materials;
- 3) Formulate skills to organize, synthesize, analyze and compute data;
- 4) Develop skills to present information clearly and effectively, both in writing and speaking.

### Writing Sequence

#### **ENGL101: College Writing Skills (3 semester hours)**

This competency-based course is a study of the organization and development of ideas in written composition beginning with the paragraph and proceeding to the full-length paper. In this course, students develop the writing skills needed to prepare expository writing assignments, including college-level themes and essay examinations. Concurrently, students develop the reading competencies needed for a functional understanding of the texts and other resource materials used in this course.

By semester's end, students passing ENGL 101 will be able to draft, revise, edit, and proofread expository prose that:

- 1) Demonstrates a reliable command of the conventions of written American English;
- 2) Uses appropriate organization at sentence, paragraph, and whole-essay levels;
- 3) Employs appropriate and substantial evidence in support of clear assertions;

- 4) Uses, where appropriate, accurate and properly acknowledged quotations, paraphrases, and summaries from the work of other writers;
- 5) Demonstrates an awareness of the purpose and context of, and the audience for, particular pieces of writing.

A student completing ENGL101 will write clearly, effectively, and grammatically on a variety of subjects. In addition, they will develop basic, relevant and useful information skills and integrate these skills into his/her writing. In so doing, the student should be able to:

- 1) Write a complete essay consisting of an introduction, support paragraphs, and conclusion; this process will include prewriting, shaping, revising, and editing;
- 2) Employ the major modes of writing: description, classification (by partition and analysis), process, definition, comparison/contrast, and cause/effect (problem/solution); critical and analytical thinking will be employed in each.
- 3) Develop ideas for specific audiences for the following purposes: personal, persuasive, and referential writing – standard academic writing used at the University;
- 4) Employ rhetorical and structural devices such as punctuation, parallel, transitions, pronoun reference, and subordination – at the word, phrase, and clause level – to achieve coherence and unity between ideas within essays and research papers;
- 5) Use the library and other information resources to research sources for ideas and to incorporate those ideas effectively within essays.

#### **Specialized College Writing and Research Skills (3 semester hours)**

This competency-based course is a practical study of the methodology of research emphasizing usage of library and other information resources, research techniques, organizational principles, documentation, and manuscript form. Students develop the basic writing, research, and information skills needed to prepare specialized writing assignments, including the fully documented library research paper – the major writing form of the course. The requirement may be met by ENGL102, ENGL104, or an approved, discipline-specific course.

Building on the competencies achieved in ENGL101, students passing the Specialized College Writing and Research Skills course at semester's end will be able to draft, revise, edit and proofread prose that:

- 1) Demonstrates a reliable command of the citation conventions and document formats appropriate to research writing in particular fields.
  - a. Select an appropriate documentation style and use it consistently to cite sources.
  - b. Select an appropriate documentation style and use it to create a properly formatted list of references.
  - c. Post permission granted notices, as needed, for copyrighted material.
- 2) Demonstrates a reliable command of conventional methods for incorporating quoted, paraphrased, and summarized source material.
  - a. Summarize the main idea(s) to be extracted from the information gathered.
  - b. Synthesize main ideas to construct new concepts.
  - c. Restate textual concepts in his/her own words.
  - d. Identify verbatim material that can be then appropriately quoted.
  - e. Demonstrate an understanding of what constitutes plagiarism and does not represent work attributable to others as his/her own.

- 3) Demonstrates a working familiarity with methods and tools for identifying, locating, retrieving, and evaluating source materials in both print and electronic formats.
    - a. Define and articulate the need for information.
    - b. Identify a variety of types and formats of potential sources for information.
    - c. Select the most appropriate investigative method(s) or information retrieval system(s) for accessing needed information.
    - d. Construct and implement effectively-designed search strategies, refining as necessary.
    - e. Retrieve information online or in person using a variety of methods
    - f. Extract, record, and manage information and its sources.
    - g. Articulate and apply criteria for evaluating both the information and its sources.
    - h. Examine and compare information from various sources in order to evaluate reliability, validity, accuracy, authority, timeliness, and point of view or bias
  - 4) Demonstrates an awareness of the purpose and context of, and the audience for, research-based writing.
    - a. Organize the content in a manner that supports the purpose(s) and format of the final product.
    - b. Manipulate printed and/or digital text, images, and data, as needed, transferring them from their original locations and formats to a new context.
    - c. Use a range of information technology applications to create the final product.
    - d. Communicate clearly and with a style that supports the purpose(s) of the intended audience.
- a. Employ evaluation techniques to validate a website and its contents.
  - b. Employ advanced Internet search techniques.
  - c. Understand copyright laws and plagiarism as they apply to the Internet.
- 3) Students can correctly employ electronic mail.
    - a. Headers
      - i. Create an email message correctly employing the header fields of the message.
      - ii. Describe the function and purpose of each of the email heading fields.
    - b. Attachments
      - i. Save an attachment from an email message in a location where it can be accessed later.
      - ii. Attach a document to an email message.
    - c. Professional communications
      - i. Explain the permanent nature of email messages and the implications.
      - ii. Explain the importance of employing proper spelling and grammar in professional email communications.
  - 4) Students can employ a word processing productivity tool:
    - a. Basic Usage
      - i. Save, retrieve and print a document
      - ii. Cut, copy and paste text
      - iii. Use spell & grammar checker and thesaurus
      - iv. Insert page and section breaks
      - v. Manage headers and footers – inserting page numbers and system date
      - vi. Manage page layout – setting margins, orientation
    - b. Editing and Formatting
      - i. Use fonts and font sizes
      - ii. Use character formatting including bold, underline and italics
      - iii. Use paragraph formatting including line spacing, tab stops, and alignment
    - c. Tables and Graphics
      - i. Inserting and formatting a table
      - ii. Inserting clip art and images from a file
    - d. References
      - i. Generating and inserting a table of contents
      - ii. Proper formatting of citations and bibliography
  - 5) Students can employ at least one other productivity tool.
    - a. Each course considered for the computer competency skill must provide the list of productivity tool skills that will be assessed in the course. These should be listed in the course objectives.

### **Mathematics**

A student completing the Mathematics requirement will apply mathematics to practical problems in everyday experiences and develop problem solving skills in matters that involve mathematics. In so doing, the student should be able to:

- 1) Identify and apply mathematical formula to solve specific problems;
- 2) Identify sound and unsound reasoning;
- 3) Identify relevant information and then develop a plan to solve a problem using an appropriate technique, such as: drawing pictures, considering simplified versions of the problem, organizing the given information into a table, writing down all known relevant formula or relationships among the given information;
- 4) Perform previously developed, multiple step procedures to solve a given problem;
- 5) Build a mathematical vocabulary in several content areas.

### **Computer Competency**

A student completing a course in computer competency can demonstrate competence in the following areas.

- 1) Students must be able to employ a file system to store and retrieve data:
  - a. Create and remove folders.
  - b. Describe and create an organized hierarchy for data for multiple projects.
  - c. Save and retrieve files from a specified folder.
  - d. Copy and move files between folders.
  - e. Employ removable and network based storage.
- 2) Students can employ the internet and related applications as a research tool:

### **CORE**

The courses in the Core area of the general education curriculum provide a broad base of knowledge for students during their education at Edinboro University of Pennsylvania. The student will complete these requirements within the first 60 hours. A student completing courses in the Core area will:

- 1) Demonstrate historical consciousness and develop a command of knowledge of diverse traditions, values, ideas, and institutions that have shaped American and World cultures.
- 2) Give evidence of abilities to analyze diverse cultures, societies, racial heritages, gender orientations, historical periods, and modes of artistic expression.
- 3) Show skills in resolving social and cultural conflict and meeting his/her responsibilities as a citizen of her/his nation and the world.

- 4) Be able to articulate their values, using moral principles and empirical knowledge to make real-life moral decisions, and demonstrate a grasp of basic approaches to understanding human behavior as modes of communicating verbally, nonverbally, and by means of artistic expression.
- 5) Give evidence of the ability to employ various modes of research and critical thinking, including the ability to employ the scientific method in a number of disciplines, with knowledge of fundamentals in at least one of the following: chemistry, physics, geology, and biology.
- 6) Demonstrate an understanding of the interconnectedness of knowledge and provide evidence of how knowledge drawn from several disciplines can be used to solve problems or provide deeper understanding of perennial human problems, cultural phenomena, or contemporary issues.

#### **Core Area 1 - Artistic Expression**

A student completing a course in Artistic Expression will demonstrate knowledge of historical, cultural, and aesthetic elements of artistic expression by developing an understanding through practical and theoretical studies in art, music, literature, and/or drama. In so doing, the student should be able to:

- 1) Critically evaluate works of art, demonstrating both critical thinking and an understanding of the major evaluative approaches in the field.
- 2) Demonstrate an understanding of the creative process.
- 3) Acquire practical experience in expressing herself/himself in one of the major artistic media.
- 4) Demonstrate an understanding of the relationship between art and the society in which it is created.

#### **Core Area 2 - World Civilizations**

A student completing a course in World Civilizations will demonstrate knowledge of fundamental ideas, institutions, and values that have shaped world civilizations. In so doing, the student should be able to:

- 1) Demonstrate a familiarity with the interrelated components and foundations of culture, namely the artifacts (material), mentifacts (ideological), and sociofacts (institutional) aspects of culture in spatial and temporal terms.
- 2) Develop an historical consciousness and the basic analytical skills that will allow the analysis of diverse cultures and societies in an historical context.
- 3) Demonstrate an ability to deal with concepts of race, gender, class, nationality, and economic status in an historical context and demonstrate an ability to trace changes in these concepts over time.
- 4) Illustrate an understanding of the historical development of both aesthetic values and science and technology and be able to trace their effects upon civilization.

#### **Core Area 3 - American Civilizations**

A student completing a course in American Civilizations will demonstrate knowledge of the fundamental ideas, institutions, and values that have shaped American Civilizations. In so doing, the student should be able to:

- 1) Gain historical consciousness and understanding of diverse traditions, ideas, and institutions that have shaped American history, geography, literature, and economics.
- 2) Understand the problems, issues and choices that confront American citizens and methods employed to resolve those social and cultural conflicts.
- 3) Develop research and/or critical thinking skills and employ a variety of information gathering techniques.

#### **Core Area 4 - Human Behavior**

A student completing a course in Human Behavior will develop knowledge of human development, behavior, and communication at individual and collective levels. In so doing, the student should be able to:

- 1) Demonstrate knowledge of principles of human behavior at either the individual or societal levels.
- 2) Demonstrate understanding of ways in which human beings exhibit physical, cognitive, and/or emotional adaptation within their biopsychosocial environments to meet demands of daily life.

#### **Core Area 5 - Cultural Diversity and Social Pluralism**

A student completing a course in Cultural Diversity and Social Pluralism will develop knowledge of diverse ways of living and thinking that are rooted in cultural, ethnic, racial, gender, and social differences. In so doing, the student should be able to:

- 1) Give evidence of an understanding and appreciation of diversity and multiculturalism as well as the fact that different cultures are best understood in terms of the different value systems around which they have developed.
- 2) Demonstrate a command of the sociological and anthropological concepts as well as basic historical knowledge necessary to global awareness.
- 3) Show that he/she is capable of employing historical and social science knowledge and concepts to discuss and illustrate the importance of gender, race, age, class, and educational achievement upon status and life changes.
- 4) Understand how self-image and behavior are shaped by the socialization process and how inequity is socially constructed.
- 5) Demonstrate that social change comes about through communication, verbal, written and nonverbal based around philosophical thoughts.

#### **Core Area 6 - Ethics**

A student completing a course in Ethics will develop knowledge of the practical, ethical dimensions of personal, social, and professional decisions. In so doing, the student should be able to:

- 1) Acquaint himself/herself with basic moral principles.
- 2) Examine specific problems, issues, and choices that confront individuals and society.  
Use moral principles and empirical knowledge to make real-life moral decisions.
- 3) Articulate his/her moral values.
- 4) Increase her/his critical thinking skills.

#### **Core Area 7 - Natural Science**

A student completing a natural science course will develop knowledge of science, and of the fundamental elements of the scientific processes in biology, chemistry, geology, or physics. Courses in Core 7 must have a laboratory component. In so doing, the student should be able to:

- 1) Demonstrate skills in critical thinking and problem solving within the context of the natural sciences.
- 2) Understand causal relationships through scientific research and/or inquiry skills.
- 3) Demonstrate a base of knowledge in the natural sciences including topics of practical significance.
- 4) Understand how scientific theories change through time.
- 5) Demonstrate a scientific literacy by critically evaluating conclusions presented in both scientific literature and public media.
- 6) Apply the scientific method and demonstrate how it is used to solve problems.

**DISTRIBUTION**

The upper level courses in the distribution area of the general education curriculum encourage the development of depth of knowledge outside the major program for students during their education at Edinboro University of Pennsylvania. In addition to the content-specific objectives of distribution courses, it is expected that these courses:

- 1) Be upper level (often carrying prerequisites)
- 2) Clearly build on the SKILLS and/or CORE in some way
- 3) Incorporate one or more of the following characteristics:
  - a. Written Communication
  - b. Quantitative Application
  - c. Information Literacy
  - d. Abstract and Critical Thinking
  - e. Experiential Learning (which may include both personal and environmental experiences)
  - f. Global Awareness
  - g. Service Learning
  - h. Interdisciplinary
  - i. Technology
  - j. Oral Communication

**Associate Degree Programs:**

Edinboro offers a number of associate degrees which are designed to provide recipients with specific occupational skills and an introduction to the general education learning experiences that are commonly shared by college and university educated individuals. Most of these programs are also intended to prepare individuals for transferring into baccalaureate degree programs. The Associate of Arts (A.A.) degree programs involve studies in the arts, humanities, social and behavioral sciences, and some professional fields. The Associate of Applied Science (A.A.S.) in Applied Technology provides students with technical training and a background in business skills. The program also focuses on quality control in technical settings, technical physics, and moral issues. The Associate in Engineering Technology (A.E.T.) degree program is essentially a technical course of study and is not intended to prepare recipients for transfer to baccalaureate degree programs. The Associate in Science (A.S.) degree programs focus on studies in mathematics, biological and physical sciences as well as related professional fields.

**General Education Requirements for Associate Degrees**

Associate of Arts Degree

- |    |  |                              |              |
|----|--|------------------------------|--------------|
| 1. | ENGL101  | College Writing Skills       | 3 sem. hrs.  |
|    | ENGL102  | Writing and Research Skills  | 3 sem. hrs.  |
| 2. | MATH104  | Finite Mathematics or higher | 3 sem. hrs.  |
| 3. | CSCI104  | Essential Computing I        | 3 sem. hrs.  |
| 4. | One approved course from six (6) of the seven (7) following Core Categories:   |                              | 18 sem. hrs. |
|    | (Artistic Expression, World Civilizations, American Civilizations, Human Behavior, Cultural Diversity and Social Pluralism, Ethics, Natural Science) |                              |              |
|    | TOTAL  |                              | 30 sem. hrs. |

Associate of Applied Science – Applied Technology

- |    |   |                              |             |
|----|---|------------------------------|-------------|
| 1. | ENGL101   | College Writing Skills       | 3 sem. hrs. |
| 2. | MATH104   | Finite Mathematics or higher | 3 sem. hrs. |
| 3. | COMM107   | Public Speaking              | 3 sem. hrs. |
| 4. | CSCI104   | Essential Computing I        | 3 sem. hrs. |
| 5. | Students must complete PHIL240 in Core 6. In addition, one course is to be selected from two of the remaining categories: (Artistic Expression, World Civilizations, American |                              |             |

Civilizations, Human Behavior, Cultural Diversity and Social Pluralism, Natural Science)	9 sem. hrs.
TOTAL	30 sem. hrs.

Associate in Engineering Technology Degree

- |    |   |                        |              |
|----|---|------------------------|--------------|
| 1. | ENGL101   | College Writing Skills | 3 sem. hrs.  |
| 2. | CSCI104   | Essential Computing I  | 3 sem. hrs.  |
| 3. | MATH105   | College Algebra        | 3 sem. hrs.  |
| 4. | PHYS201   | Physics I (4) and      |              |
|    | Three approved course from six (6) of the seven (7) Core Categories:  |                        | 13 sem. hrs. |
|    | (Artistic Expression, World Civilizations, American Civilizations, Human Behavior, Cultural Diversity and Social Pluralism, Ethics) |                        |              |
|    | TOTAL   |                        | 22 sem. hrs. |

Associate of Science Degree

- |    |   |                              |              |
|----|---|------------------------------|--------------|
| 1. | ENGL101   | College Writing Skills       | 3 sem. hrs.  |
|    | ENGL102   | Writing and Research Skills  | 3 sem. hrs.  |
| 2. | MATH104   | Finite Mathematics or higher | 3 sem. hrs.  |
| 3. | CSCI104   | Essential Computing I        | 3 sem. hrs.  |
| 4. | One approved course from four (4) of six (6) following Core Categories:   |                              | 12 sem. hrs. |
|    | (Artistic Expression, World Civilizations, American Civilizations, Human Behavior, Cultural Diversity and Social Pluralism, Ethics) |                              |              |
|    | TOTAL   |                              | 24 sem. hrs. |

**Courses Approved for General Education (July 1, 2014)**

**Computer Competency**

ART249	Computer Animation I
ART267	Film and Video Production I
ART268	Beginning Animation
ART395	Professional Practices for Studio Arts
CHEM241	Principles of Chemistry II
CSCI104	Essential Computing I
CSCI105	Essential Computing I
CSCI123	Intro to Web Development
CSCI125	Intro to Computer Science
GEOG413	Geographic Information Systems
JOUR226	Digital Media Design
JOUR227	Editing for Publications
JOUR326	Intro to Electronic Layout
JOUR327	Editing for Publications
JOUR417	Advanced Digital Media Design
MUED216	Methods/Elem. General Music
PSYC227	Experimental Psychology
SEDU183	Educational Technology and Computer Literacy

**Core**

1. Artistic Expression
 

ARHI105	Overview of Western Art History
ARHI207	Overview of Non-Western Art History
COMM213	Introduction to Performance Studies
ENGL115	Introduction to Literature
ENGL117	Introduction to Fiction
ENGL118	Introduction to Poetry
ENGL119	Introduction to Creative Non-Fiction
MUSC103	Introduction to Music
THEA202	Play Analysis
THEA218	Introduction to Theatre



## 2. World Civilizations

GEOG101	World Geography
GEOG130	Cultural Geography
HIST101	World Civilizations I
HIST102	World Civilizations II
HIST103	Twentieth Century World
POLI100	Introduction to Politics
POLI102	Introduction to Comparative Politics
POLI103	Introduction to Global Politics
WRLD100	Introduction to World Languages and Cultures

## 3. American Civilizations

ECON100	Elements of Economics
ENGL116	American Prose Classics
GEOG245	Conservation of Natural Resources
GEOG260	Geography of United States and Canada
HIST261	History of U.S. I
HIST262	History of U.S. II
LAS 204	US Interventions/Latin America
POLI101	Intro to American Politics

## 4. Human Behavior

ANTH180	Introduction to Anthropology
COMM100	Mass Communication in Modern Society
COMM125	Psychology of Communication
JOUR214	Journalism and Society
PSYC101	Introduction to Psychology
SHLD125	Psychology of Communication

## 5. Cultural Diversity and Social Pluralism

ANTH205	Introduction to Multicultural America
COMM220	Intercultural Communication
ENGL205	Multi-Ethnic American Literature
FREN100	Introduction to France and the French
FREN101	First Course in French
GEOG230	Societal Issues
GERM100	Introduction to Germany and the Germans
GERM101	First Course in German
HIST205	Introduction to Multicultural America
HIST271	African American History I
HIST272	African American History II
HONS200	Religion, Popular Culture and Diversity
HONS205	Honors Cultural Diversity
MUSC247	Music, Gender, and Identity
PHIL204	Introduction to Women's Studies
RUSS100	Introduction to Russian Language and Culture
RUSS101	First Course in Russian
SOC100	Principles of Sociology
SPAN100	Introduction to Spanish Culture
SPAN101	First Course in Spanish
WMST204	Introduction to Women's Studies

## 6. Ethics

ANTH106	Intolerance: A Cultural History of Hate
ANTH220	Museum Ethics
GEOG145	Environmental Issues
HIST105	The Holocaust on Film
HIST282	Ethics, Culture & American Education
HPE101	You Make the Call: Controversies and Ethical Issues in Sport
JOUR200	Journalism Ethics
LIBR106	Information Ethics
PHIL200	Introduction to Philosophy and Values

PHIL240	Introduction to Contemporary Moral Issues
SEDU282	Ethics, Culture & American Education

## 7. Natural Science

BIOL100	Introduction to Biology
BIOL150	Principles of Biology
CHEM107	Forensic Chemistry – Fact and Fiction
CHEM115	Chemistry in the Kitchen
CHEM120	Chemistry in a Modern World
CHEM140	General Chemistry
CHEM240	Principles of Chemistry I
GEOS101	Dynamic Earth
GEOS102	Weather and Climate
GEOS104	Intro to Earth Environments
GEOS109	Atmospheric and Space Science
HONS207	Honors in Natural Science
PHYS101	Physical Science I
PHYS201	Physics I
PHYS271	Frontiers of Astronomy

**Distribution**

## 1. Humanities and Fine Arts

ARHI220	Introduction to Film and Video Art
ARHI330	Latin American Art
ARHI335	History of Advertising
ARHI431	Aesthetics of Art
ARHI536	The Art and Architecture of England
ARHI556	Early 20th Century Art
COMM107	Public Speaking
COMM230	Organizational Communication
COMM298	Business and Professional Communication
COMM313	Oral Interpretation
COMM318	Interviewing
COMM321	Non-Verbal Communication
COMM330	Advanced Performance Studies
COMM331	Group Performance and Performance Ethnography
COMM335	Communicating Difference: Race, Class and Gender
COMM360	Freedom of Speech
COMM364	Introduction to Mass Media
COMM365	Introduction to Public Relations
COMM415	Language and Thought
COMM416	Persuasion and Propaganda
ENGL201	American Literature Survey I
ENGL202	American Literature Survey II
ENGL241	English Literature: Anglo/Saxon
ENGL242	English Literature: Roman/Moderns
ENGL260	Literature of the Classical World
ENGL301	Creative Writing
ENGL309	African American Literature I
ENGL310	African American Literature II
ENGL311	Literature by Women
ENGL315	Shakespeare I
ENGL316	Short Story
ENGL319	Shakespeare II
ENGL325	Literature of the Bible I
ENGL326	Literature of the Bible II
ENGL330	Literature and Film
ENGL355	Popular Literature
ENGL365	Gender and Identity in Literature
ENGL370	Business Writing

ENGL385	Advance Composition	2.	Social and Behavioral Sciences
ENGL388	Mythology	ANTH305	Anthropology of Food/Eating
ENGL389	World Mythologies	ANTH310	Introduction to Forensic Anthropology
ENGL404	Technical Writing	ANTH315	Ritual, Magic, and Myth
FREN102	Second Course in French	ANTH364	Culture, Illness, and Curing
FREN201	Third Course in French	ANTH365	Living with the Dead
FREN202	Fourth Course in French	ANTH371	Introduction to Archaeology
FREN353	The French Novel in English	ANTH372	Cultures of the World
GERM102	Second Course in German	ANTH374	Indians of North America
GERM201	Third Course in German	ANTH378	Native America Before Columbus
GERM202	Fourth Course in German	ANTH379	Early Man in the Old World
HONS310	Canterbury Tales	ANTH385	Introduction to Physical Anthropology
JOUR216	Beginning Reporting	ANTH390	Human Evolution
JOUR264	Introduction to Mass Media	COMM308	Leadership Communication
JOUR298	Business and Professional Communication	ECON205	Personal Economics
LAS 489	The Maya Experience	ECON220	Principles of Microeconomics
LAS 491	Gender, Language/Cultural Images of Mexico	ECON225	Principles of Macroeconomics
MUSC201	Fundamentals of Music	ECON370	Contemporary Economic Problems
MUSC211	World Music	GEOG271	Geography of the Commonwealth of Independent States
MUSC240	Music of Broadway	GEOG300	Principles of Urban and Regional Planning
MUSC241	Music and Media	GEOG305	Basic Cartography
MUSC343	Evolution of Jazz	GEOG320	Physical Geography
MUSC344	American Music	GEOG332	Political Geography
PHIL205	Critical Thinking	GEOG335	Urban Geography
PHIL300	Ancient Philosophy	GEOG340	Economic Geography
PHIL306, PHIL307, PHIL308, PHIL309	Philosophy in Popular Culture	GEOG350	Population Geography
PHIL310	Eastern Philosophy	GEOG365	Geography of Latin America
PHIL311	World Religions	GEOG370	Geography of Europe
PHIL312	Black/White: Appearance and Reality	GEOG375	Geography of the Middle East
PHIL313	African Philosophy	GEOG380	Geography of Africa
PHIL318	Marxism	GEOG390	Geography of Asia
PHIL327	Beginning Logic	GEOG391	Field Geography
PHIL340	Ethics	HIST302	History of East Asia
PHIL342	Images of Humanity	HIST305	China, Past and Present
PHIL344	Social Philosophy	HIST306	United States and Asia
PHIL346	Environmental Ethics	HIST312	Middle East II
PHIL364	Sexual Love and Western Morality	HIST314	History of Women in Europe
PHIL402	History of Modern Philosophy	HIST315	History of Women in the U.S.
PHIL405	Contemporary Philosophy	HIST316	Women in Non-Western Nations
PHIL410	Metaphysics	HIST318	Colonial Africa
PHIL411	Theory of Knowledge	HIST319	Modern Africa
PHIL420	Logic	HIST323	History of Latin America I
PHIL425	Philosophy of Science	HIST324	History of Latin America II
PR265	Intro to Public Relations	HIST330	World War II
RUSS102	Second Course in Russian	HIST333	History of Terrorism
RUSS201	Third Course in Russian	HIST334	History of Christianity
RUSS202	Fourth Course in Russian	HIST335	History of Sports
RUSS353	Russian Literature in English	HIST336	History of Religion in America
SPAN102	Second Course in Spanish	HIST339	History of Modern Germany
SPAN201	Third Course in Spanish	HIST341	History of Nazi Germany
SPAN202	Fourth Course in Spanish	HIST347	Introduction to Modern Europe II
SPAN307	Spanish Conversation and Composition I	HIST358	England Since 1815
SPAN308	Spanish Conversation and Composition II	HIST361	American Colonial History
SPAN353	Modern Latin American Literature in Translation	HIST364	Immigrant Groups
THEA203	Fundamentals of Acting	HIST366	U.S. Since 1945
THEA309	Children's Theatre	HIST370	American Dream on Film
THEA310	Creative Dramatics I	HIST373	Turbulent Sixties
THEA318	History of Theatre to 1642	HIST375	U.S. Military History
THEA319	History of Theatre from 1660 to Present	HIST377	American Urban Development
		HIST378	American West
		HIST379	U.S. Police History

HIST380	Pennsylvania History	BIOL307	History of Biology
LAS 489	The Maya Experience	BIOL314	Computers and Life Science
LAS 491	Gender, Language, and Cultural Images of Mexico	BIOL325	Human History Science: Guns Germ. Steel
POLI315	American State and Local Government	CHEM141	Bio-Organic Chemistry
POLI322	Public Opinion, Interest Groups, and Propaganda	CHEM215	Chemistry of Sex
POLI335	American Presidency	CHEM230	General Environmental Chemistry
POLI341	Government and Politics of Latin America	CHEM241	Principles of Chemistry II
POLI343	Law and Legal Systems	CHEM301	General Organic Chemistry
POLI345	Political Systems of Asia and the Far East	CHEM302	General Biochemistry
POLI348	Introduction to International Politics	CHEM310	Quantitative Analysis
POLI351	American Foreign Policy	CHEM330	Organic Chemistry I
POLI370	Political Thought I	CHEM331	Organic Chemistry II
POLI463	Civil Liberties	CSCI204	Essential Computing II
POLI465	Constitutional Law	CSCI207	Programming in Visual Basic
POLI510	Health Care Politics and Policy	CSCI230	Principles of Programming II
POLI544	Government and Politics of New Nation States and Developing Areas	CSCI280	Principles of System Operation and Administration
POLI548	U.S.-Latin America Relations: Contemporary Problems	CSCI304	Design and Implementation
POLI550	International Law and Organizations	GEOS301	Geology of our Nation's Parks
POLI563	Civil Liberties	GEOS302	Our Hazardous Planet
POLI565	Constitutional Law/Judicial Procedures	GEOS303	Climate Science
POLI574	America Political Thought	GEOS310	Introduction to Oceanography
PSYC301	Psychology of Adjustment	MATH105	College Algebra
PSYC305	Psychology of Human Sexuality	MATH106	Trigonometry
PSYC317	Developmental Psychology	MATH107	Precalculus
PSYC319	Psychology of Adulthood and Aging	MATH208	Essentials of Calculus
PSYC325	Psychology of Creativity and the Arts	MATH209	Mathematics of Finance
PSYC330	Sport Psychology	MATH210	Math Reasoning II
PSYC350	Drugs and Human Behavior	MATH211	Analytic Geometry and Calculus I
PSYC355	Psychology and Law	MATH212	Analytic Geometry and Calculus II
PSYC370	Psychology of Personality	MATH250	Informal Geometry
PSYC390	Social Psychology	MATH260	Elements of Statistics
SHLD300	Communication Across Lifespan	MATH270	Discrete Math I
SHLD340	Advanced Language Development and Analysis	MATH275	Linear Algebra I
SOC207	Contemporary Social Problems	MATH300	Applied Statistical Methods
SOC320	Sociology of Deviance	MATH311	Analytic Geometry and Calculus III
SOC326	Society and the Individual	MATH350	Mathematical Probability and Statistics
SOC340	Sociology of Marriage and Family	MATH370	Discrete Math II
SOC347	Work and Society	PHYS202	Physics II
SOC364	Race and Ethnic Relations	PHYS301	The Nature of Sound
SOC390	Sociology of the Life Cycle	PHYS302	The Nature of Light and Color
3. Natural Science and Mathematics		PHYS303	The Nature of Nuclear Energy
BIOL101	Human Biology	PHYS313	Digital Electronics
BIOL102	Environmental Biology	PHYS315	Introduction to Microprocessors
BIOL104	Introduction to Human Genetics	PHYS320	University Physics I
BIOL230	Botany	PHYS321	University Physics II
BIOL240	Zoology	PHYS325	Introduction to Modern Physics
BIOL300	Genetics	PHYS371	The Solar System
BIOL304	Biology of Aging	PHYS471	Relativity, Black Holes and Cosmology
		PHYS472	The Sun

# College of Arts, Humanities and Social Sciences

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## Art Department

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**FACULTY:** Suzanne L. Amendolara, Lisa M. Austin, Shelle Barron, John Bavaro, Geoffrey S. Beadle, Rachael J. Burke, Steven Carpenter, Malcolm P. Christhilf, Cappy Counard, Diane M. Crandall, Mark Deka, Francis J. Demaske, Karen Ernst, Michael A. Genz, Jay Hanes, Charles E. Johnson, Brigette Marshala, David W. Martin, William Mathie, Terrence P. McKelvey, Penelope Orr, James Parlin, Bradford Pattullo, S. Lee Rexrode, Fred Scruton, Franz F. Spohn, Michelle M. Vitali, David P. Warner, Dietrich Wegner, Charlotte H. Wellman

The responsibility of the Art Department is to prepare well-trained people for the various fields of professional art, art education and art history. A wide range of studio and academic classroom experience is available to the student who wishes to develop a career in personal studio art, in public and private school teaching and studies in the history of art. On completion of a specialized Art curriculum a graduate receives one of two degrees: the Bachelor of Fine Arts (BFA), or the Bachelor of Science in Art Education (BSAE). Students planning to earn Art Education certification and meet BFA degree requirements must complete Teacher Candidacy procedures and file a Teacher Certification form with the registrar. Students in the BFA program may concentrate in graphic & interactive design, cinema (film/video and animation), photography, ceramics, drawing, illustration, jewelry/metalsmithing, painting, printmaking, sculpture, and wood furniture. BFA students may elect to have an internship in their career area.

A wide variety of curricular offerings is available in each degree area and emphasis is placed on the development of knowledge and skill to meet the demands of personal and professional endeavors. Advanced work is available to strengthen content knowledge in specialized areas.

The Department offers numerous minors which may be taken in conjunction with an art major.

The Art Department is devoted to the study and practice of creatively solving complex problems, within the context of the visual arts and design:

- Focus on each student's educational and professional development.
- Maintain educational standards that ensure excellence and leadership in art and design, art education, and art history.
- Prepare students to innovatively meet the ever-changing challenges of professional practice.
- Provide the means for students to excel in visual arts studies.
- Believe in a broad based education as the foundation upon which a discipline specific understanding is built.
- Provide a rich, multi-disciplinary educational experience.
- Strive to bring our students to a broad, global perspective.
- Enable students to understand historical artistic traditions and contemporary issues in art and design.
- Devoted to excellence in every level of arts education, from Foundations through Graduate Studies, including terminal degrees.
- Committed to excellence in instruction that is founded on professional practice and research.
- Build a culture of service, collaboration, and community responsibility.
- Provide visual arts studies to the university at large to help prepare all students to flourish in the creative economy.

A minimum 42 semester hours of the entire program must consist of advanced coursework.

The Bachelor of Science in Art Education, Bachelor of Fine Arts in Applied Media Arts, Bachelor of Fine Arts in Studio Arts, Master of Arts in Studio Art, and Master of Fine Arts in Studio Art are accredited by the National Association of Schools of Art and Design.

It is recommended that new students purchase a laptop computer loaded with Adobe Creative Suite software. Specifications for the laptop and software programs can be found on the Art Department's webpage, or by contacting the Art office.

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## Bachelor of Fine Arts Degree

### Art

Edinboro University of Pennsylvania offers two different Bachelor of Fine Arts degrees, a Bachelor of Fine Arts in Studio Arts and a Bachelor of Fine Arts in Applied Media Arts. Any student who is accepted into the University may begin a BFA degree program; however, these students must apply for Candidacy and be accepted in order to continue in the major. The application for Candidacy in BFA programs takes place after all introductory courses in the major Concentration have been completed, generally sometime during the sophomore year. Students who are not accepted for Candidacy in one Concentration may apply for Candidacy in another Concentration, or they may choose another major in the University. Students apply for Candidacy by submitting a portfolio of artwork, following the guidelines set forth in the current Art Department student handbook including the requirements and deadlines for submission of portfolios to each area of concentration.

The BFA is available in the following concentrations:

### Concentration I: Studio Arts

Studies in Ceramics, Drawing, Illustration, Jewelry/Metalsmithing, Painting, Printmaking, Sculpture, and Wood/Furniture Design.

- |   |  |                                |
|---|--|--------------------------------|
| I. General Education Requirements                                 |  | 42 sem. hrs.                   |
| II. Foundation Courses  |  | 15 sem. hrs.                   |
|   | ART101                                     | Two-Dimensional Design(3)      |
|   | ART102                                     | Three-Dimensional Design(3)    |
|   | ART103                                     | Four- Dimensional Design (1.5) |
|   | ART105                                     | Color (1.5)                    |
|   | ART106                                     | Drawing I (3)                  |
|   | ART107                                     | Drawing II (3)                 |
| III. Required Studio Arts Courses (select four of the following): |  | 6 sem. hrs.                    |
|   | ART221                                     | Printmaking I (3)              |
|   | ART231                                     | Painting I (3)                 |
| IV. Studio Arts Electives (select two of the following):          |  | 6 sem. hrs.                    |
|   | ART211                                     | Metals I (3)                   |
|   | ART216                                     | Ceramics I (3)                 |
|   | ART226                                     | Sculpture I (3)                |
|   | ART236                                     | Wood Furniture (3)             |
| V. Concentration Courses  |  | 18 sem. hrs.                   |
|   | ART303                                     | Illustration I (3)             |
|   | ART393                                     | Illustration II (3)            |
|   | Select two of the following: (6)           |                                |
|   | ART 408, 409, 328, 336, 341, 342, 345, 372 |                                |
|   | ART413                                     | Advanced Illustration I (3)    |
|   | ART417                                     | Advanced Illustration II (3)   |

## VI. Applied Media Arts Elective (select two of the following):

ART251	Photography I (3)	6 sem. hrs.
ART258	Graphic Design Software (3)	
##ART267	Film and Video Production (3)	
##ART268	Beginning Animation (3)	
##Satisfies Computer Competency - General Education Skills		

## VII. Required Art History/Theory 12 sem. hrs.

* ARHI105	Overview of Western Art History
** ARHI	
ARHI	
ARHI	

\* (3) Credits are recorded in the General Education Core 1.

\*\* (3) Courses must be 300 level or above for the following concentrations:

Ceramics, Drawing, Jewelry/Metalsmithing, Painting, Printmaking, Sculpture, and Wood/Furniture Design.

## VIII. Art Elect. (Intern., ARED, ARHI, ART) 15 sem. hrs.

## IX. Free Electives 0-9 sem. hrs.

TOTAL 120 sem. hrs.

Free Electives must be 300 level or above for the following concentrations: Ceramics, Drawing, Jewelry/Metalsmithing, Painting, Printmaking, Sculpture, and Wood/Furniture Design.

At least 42 semester hours must consist of advanced coursework.

**Concentration II: Applied/Media Arts**

Studies in Cinema (Traditional Animation, Computer Animation, Film & Video), Graphic & Interactive Design, and Photography.

## I. General Education Requirements 42 sem. hrs.

ARHI105	Overview of Western Art History in Core I
	Art History in Distribution 1 (3)

## II. Required Art Courses 21 sem. hrs.

ART101	Two-Dimensional (3)
ART102	Three-Dimensional (3)
ART103	Four-Dimensional (1.5)
ART105	Color Theory (1.5)
ART106	Drawing I (3)
ART107	Drawing II (3)
ART251	Photography I (3)
ART258	Graphic Design Software (3)
ART267*	Film and Video Production I <b>or</b>
ART268*	Beginning Animation (3)

\*Recommend that one of these courses be taken in courses approved for General Education from Skills/Computer Literacy.

## III. Applied Media Arts Concentrations 21 sem. hrs.

## A. Cinema (Traditional Animation, Computer Animation, Film &amp; Video)

**Cinema:**

ART267	Film & Video Production I (3) <b>or</b>
ART268	Beginning Animation (3)
ART249	Computer Animation I (3)

**Traditional Animation Track:**

ART353	Animation II (3)
ART354	Animation III (3)
ART466	Animation IV (3)
ART466	Animation IV (3)

**Computer Animation Track:**

ART348	Computer Animation II (3)
ART349	Computer Animation III (3)
ART353	Intermediate Animation (3)
ART462	Computer Animation IV (3)

**Film & Video Track:**

ART367	Film & Video Production II(3)
ART370	Film & Video Production III(3)
ART467	Film & Video Production IV (3)
ART467	Advanced Film & Video Production (3)

**Cinema Elective:**

Computer Animation **or** Traditional Animation **or** Film & Video Elective (3)

## B. Graphic &amp; Interactive Design

ART301	Principles of Graphic Design (3)
ART305	Typography I (3)
ART310	Typography II (3)
ART326	Interactive Design I (3)
ART327	Corporate Identity (3)
ART431	Movements in Graphic Design (3)
ART432	Publication Design (3) OR
ART430	Interactive Design II (3)
ART499	Senior Projects in Graphic Design

## C. Photography

ART252	Photography II (3)
ART351	Intermediate Photography I (3)
ART352	Intermediate Photography II (3)
ART449	Advanced Digital Editing (3)
ART451	Advanced Photography I (3)
ART452	Advanced Photography II (3)
ART556	Special Photographic Workshop (3)

## IV. Studio Art Elective 6 sem. hrs.

ART221 or ART231 (3)	
ART211, or, ART216, or ART226, or ART236, or ART241(3)	

## V. Required Art History/Theory 3-9sem. hrs.

*ARHI105	Overview of Art History
**ARHI	
ARHI	
ARHI	

\* Credits to be recorded in General Education Core 1.

\*\* Recommend these credits be taken in a course approved for General Education from Distribution 1.

Note: Nine (9) semester hours in Art History/Theory must be 300 level or above for the following concentrations: Cinema (Traditional Animation, Computer Animation, Film & Video), and Photography.

## VI. Art Elect. (Intern., ARED, ARHI, ART) 15 sem. hrs.

Note: Nine (9) semester hours in Art Electives must be 300 level or above for the following concentrations: Cinema (Traditional Animation, Computer Animation, Film & Video), and Photography.

## VII. Free Electives 6-12 sem. hrs.

Note: All credits earned in free electives must be 300 level or above for the following concentrations: Cinema (Traditional Animation, Computer Animation, Film & Video), and Photography. (ENG301 Creative Writing is recommended for Cinema Concentration.)

TOTAL 120 sem. hrs.

Note: Six concurrent credits (one year's work in one term) in ART353, ART367, ART466 or ART467 are rare exceptions and must be approved by the chairperson of the Art Department. The six credits are allowed when the student's graduation may be affected or for a unique circumstance.

#Note: At least 42 semester hours must consist of advanced coursework.

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**BACHELOR OF FINE ARTS – STUDIO ARTS**  
**(Suggested Eight-Semester Sequence)**
**First Semester**

ARHI105	Overview of Art History (3)		
ART106	Drawing I (3)		
ART101	Two-Dimensional Design (3) <b>or</b>		
ART102	Three-Dimensional Design (3)		
ENGL101	College Writing Skills (3)		
	Core (3)		
	<b>TOTAL</b>	15 sem. hrs.	

**Second Semester**

ART107	Drawing II (3)		
ART101	Two-Dimensional Design (3) <b>or</b>		
ART102	Three-Dimensional Design (3)		
ART103	Four-Dimensional Design (1.5)		
ART105	Color (1.5)		
ENGL102	Specialized College Writing and Research Skills (3)		
MATH104	Finite Math (3) <b>or higher</b>		
MATH110	Mathematical Reasoning I (3)		
	<b>TOTAL</b>	15 sem. hrs.	

**Third Semester**

CSCI104	Essential Computing I (3) <b>or</b>		
	Discipline specific computer competency course (ART267 or ART268)		
	First Course in Area of Concentration (3)		
	Required Art Studio Course (3)		
	Core (3)		
	Core (3)		
	<b>TOTAL</b>	15 sem. hrs.	

**Fourth Semester**

	Second Course in Concentration (3)		
	Required Art Studio Course (3)		
	ARHI approved for Distribution 1 (3)		
	Core (3)		
	Free Elective (3)		
	<b>TOTAL</b>	15 sem. hrs.	

**Fifth Semester**

	Intermediate I in Concentration (3)		
	Required Art Studio Course (3)		
	Applied Media Arts Elective ART251, ART358, ART267, <b>or</b> ART268 (3)		
	Core (6)		
	<b>TOTAL</b>	15 sem. hrs.	

**Sixth Semester**

	Intermediate Selection in Concentration (3)		
	Art Elective (3)		
	Art Elective (3)		
	ARHI (3)		
	Distribution (3)		
	<b>TOTAL</b>	15 sem. hrs.	

**Seventh Semester**

	Advanced I in Concentration (3)		
	Art Elective (3)		
	Art Elective (3)		
	ARHI (3)		
	Distribution (3)		
	<b>TOTAL</b>	15 sem. hrs.	

**Eighth Semester**

	Advanced II in Concentration (3)		
	Art Elective (3)		
	Art Elective (3)		
	Free Elective (3)		
	Free Elective (3)		
	<b>TOTAL</b>	15 sem. hrs.	

Note: ART267 or ART268 can simultaneously fulfill the computer competency requirement and also the applied media art elective.

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**BACHELOR OF FINE ARTS – APPLIED MEDIA ARTS**  
**(Suggested Eight-Semester Sequence)**
**First Semester**

ARHI105	Overview of Art History (3)		
ART106	Drawing I (3)		
ART101	Two-Dimensional Design (3)		
ART103	Four-Dimensional Design (1.5)		
ART105	Color (3)		
ENGL101	College Writing Skills (3)		
	<b>TOTAL</b>	15 sem. hrs.	

**Second Semester**

ART107	Drawing II (3)		
ART102	Three-Dimensional Design (3)		
ENGL102	Specialized College Writing and Research Skills (3)		
MATH104	Finite Math (3) <b>or higher</b>		
	First Course in Area of Concentration (3)		
	<b>TOTAL</b>	15 sem. hrs.	

**Third Semester**

	Core (3)		
	Second Course in Concentration (3)		
	Required Art Studio Course (3)		
	2D Studio Elective: ART221 or ART231 (3)		
	ARHI approved for Distribution 1 (3)		
	<b>TOTAL</b>	15 sem. hrs.	

**Fourth Semester**

	Intermediate I in Concentration (3)		
	Required Art Studio Course (3)		
	3D Studio Elective: ART211, ART216, ART226, ART236, <b>or</b> ART241 (3)		
	Core (6)		
	<b>TOTAL</b>	15 sem. hrs.	

**Fifth Semester**

	Intermediate II in Concentration (3)		
	ARHI (3)		
	Art Elective (6)		
	Core (3)		
	<b>TOTAL</b>	15 sem. hrs.	

**Sixth Semester**

	Advanced I in Concentration (3)		
	Art Elective (6)		
	Core (6)		
	<b>TOTAL</b>	15 sem. hrs.	

**Seventh Semester**

	Advanced II in Concentration (3)		
	Art Electives (3)		
	ARHI (3)		
	Distribution (6)		
	<b>TOTAL</b>	15 sem. hrs.	

**Eighth Semester**

	Internship (9-15)		
	Free Electives (6-12)		
	<b>TOTAL</b>	15 sem. hrs.	

## Bachelor of Science in Art Education

### Area of Certification – K-12

Students planning to earn Art Education Certification and meet BFA requirements must complete Teacher Candidacy procedures and file a Teacher Certification form with the registrar.

I. General Education Requirements	42 sem. hrs.
II. Professional Education Requirements	33 sem. hrs.
ARED305	Field Experience 1 (3)
ARED314	Intro to Art Ed. (3)
ARED315	Curriculum Dev. In Art Educ. (3)
ARED383	Technology Portfolio in Art Ed (3)
ARED425	Art Ed. for Special Populations (3)
ARED475	Field Experience 2 (3)
ARED495	Student Teaching (3)
PSYC101	Introduction to Psychology (3)
SEDU271	Ed. in American Society** (3)
SPED210	Introduction to Exceptionality (3)
SPED370	Adaptations and Rec.s (3)

Literature Requirement\*\*\*

\*\*Credits are recorded in the General Education section

\*\*\*English Literature course for Distribution 1 requirement

III. Concentration	36 sem. hrs.
A. Foundations	15 sem. hrs.
ART101	Two-Dimensional Design (3)
ART102	Three-Dimensional Design (3)
ART103	Four-Dimensional Design (1.5)
ART105	Color (1.5)
ART106	Drawing I (3)
ART107	Drawing II (3)
B. Studio Breadth (select 5 courses)	15 sem. hrs.
At least two courses must be from the following:	
ART211	Metals (3)
ART216	Ceramics I (3)
ART226	Sculpture I (3)
ART236	Wood/Furniture I (3)
ART241	Weaving and Fibers I (3)
At least two courses must be from the following:	
ART221	Printmaking I (3)
ART231	Painting I (3)
ART251	Photo I (3)
ART258	Graphic Design Software (3)
ART267	Film and Video Production I (3)
ART268	Beginning Animation (3)
C. Studio Depth	6 sem. hrs.
<b>Two Additional studio courses from one concentration beyond</b>	
IV. Art History Requirements	9 sem. hrs.
ARHI105	Over. West.
ARHI207	Over. Non West
ARHI323	Art of the 20 <sup>th</sup> Century
ARHI300+	
<b>TOTAL</b>	<b>126 sem. hrs.</b>

### BACHELOR OF SCIENCE – ART EDUCATION (Suggested Eight-Semester Sequence)

<b>First Semester</b>	
ARHI105	Overview of Art History (3)
ART101	Two-Dimensional Design (3)
ART106	Drawing I (3)
ENGL101	College Writing Skills (3)
MATH110	Mathematical Reasoning I (3)
<b>TOTAL</b>	<b>15 sem. hrs.</b>

### Second Semester

ART102	Three-Dimensional Design (3)
ART103	Four-Dimensional Design (1.5)
ART105	Color (1.5)
ART107	Drawing II (3)
ENGL102	Specialized College Writing and Research Skills (3)
MATH210	Mathematical Reasoning II (3)
<b>TOTAL</b>	<b>15 sem. hrs.</b>

### Third Semester

PSYC101	Introduction to Psychology (3)
ARHI207	Overview of Non-Western Art History (3)
	Required Studio Breadth Course (6)
	Core 3
<b>TOTAL</b>	<b>15 sem. hrs.</b>

### Fourth Semester

ARHI323	Required Studio Breadth Course (3)
SEDU271	Art of the 20 <sup>th</sup> Century (3)
SPED210	Educ. in a Multicultural Society (3)
	Introduction to Exceptionality (3)
	Literature (3)
<b>TOTAL</b>	<b>15 sem. hrs.</b>

### Fifth Semester

ARED314	Introduction to Art Education (3)
ARED383	Technology Portfolio in Art Educ. (3)
	Required Studio Breadth Course (3)
	ARHI300 + (3)
	Core (3)
<b>TOTAL</b>	<b>18 sem. hrs.</b>

### Sixth Semester

PSYC317	Development Psychology (3)
ARED305	Field Experience 1 (3)
ARED315	Curriculum Dev. in Art Education (3)
	Required Studio Depth Course (3)
	Core (3)
	Distribution (PSYC) (3)
<b>TOTAL</b>	<b>18 sem. hrs.</b>

### Seventh Semester

ARED475	Field Experience II (3)
ARED425	Art Educ. for Special Populations (3)
	Required Studio Depth Course ART (3)
	Core (3)
SPED370	Adaptations/Accommodations (3)
<b>TOTAL</b>	<b>15 sem. hrs.</b>

### Eighth Semester

ARED495	Student Teaching (12)
<b>TOTAL</b>	<b>12 sem. hrs.</b>

## Communication Studies Department

FACULTY: Anthony E. Esposito, Kathleen M. Golden, Melissa K. Gibson, Jean G. Jones, Andrew R. Smith, and Timothy N. Thompson

The Department of Communication Studies provides students with a flexible degree program that emphasizes both theory and application. Students learn to think, speak, write, create, lead and work with others—life-long skills that will prepare them for the challenges of an ever-changing workplace of the future. Within the department, students complete a rigorous core of communication courses highlighting key areas of the discipline. Faculty members then work one-on-one with students to customize a plan of study that reflects the interests of each

individual student. Students are encouraged to minor in relevant areas outside the department and complete a high-quality internship or study abroad experience.

All majors in the Department of Communication Studies must earn a minimum letter grade of “C” in all Communication courses *and* in required English writing courses.

Graduates of the Bachelor of Arts in Communication Studies will be able to:

- Develop effective oral and written communication skills
- Develop competency in the use of technology
- Develop effective interpersonal and organizational communication skills
- Develop competency in research processes
- Develop knowledge of discipline-specific theories and practices

## Bachelor of Arts Degree

### Communication Studies

I. General Education Requirements	42 sem. hrs.
II. Specialization in Communication Studies Courses	42 sem. hrs.
A. Lower-Division Major Requirements	15 sem. hrs.
COMM100	Mass Communication and Modern Society (3)
COMM107	Public Speaking (3)
COMM200	The Rhetorical Power of Popular Culture (3)
COMM220	Intercultural Communication (3)
COMM230	Organizational Communication (3)
B. Upper-Division Major Requirements	9 sem. hrs.
COMM310	Introduction to Communication Research (3)
COMM416	Persuasion (3)
COMM495	Senior Capstone (3)
C. Communication Applications	18 sem. hrs.
III. Free Electives	36 sem. hrs.
<b>TOTAL</b>	<b>120 sem. hrs.</b>

\* Majors should work closely with their advisors to develop a plan of study that is suited to your interests.

### BACHELOR OF ARTS – COMMUNICATION AND MEDIA STUDIES

(Suggested Eight-Semester Sequence)

#### First Semester

ENGL101	College Writing Skills (3)
COMM100	Communication and Modern Society (3)
COMM107	Public Speaking (3)
COMM125	Psychology of Communication (3)
	Core (3)
<b>TOTAL</b>	<b>15 sem. hrs.</b>

#### Second Semester

ENGL102	Specialized College Writing and Research Skills (3)
MATH104	Finite Mathematics (3)
COMM200	The Rhetorical Power of Popular Culture (3)
COMM230	Organizational Communication (3)
	Core (3)
<b>TOTAL</b>	<b>15 sem. hrs.</b>

#### Third Semester

COMM220	Intercultural Communication (3)
CSCI104	Essentials of Computing (3) or Discipline-specific Computer Competency Course
	Communication Studies Elective (3)
	Free Elective (3)
	Core (3)
<b>TOTAL</b>	<b>15 sem. hrs.</b>

#### Fourth Semester

	Communication Studies Elective (3)
	Communication Studies Elective (3)
	Core (3)
	Core (3)
	Distribution (3)
<b>TOTAL</b>	<b>15 sem. hrs.</b>

#### Fifth Semester

COMM310	Introduction to Communication Research (3)
	Communication Studies Elective (3)
	Core (3)
	Distribution (3)
	Free Elective (3)
<b>TOTAL</b>	<b>15 sem. hrs.</b>

#### Sixth Semester

COMM416	Persuasion and Propaganda (3)
	Communication Studies Elective (3)
	Core (3)
	Free Elective (3)
	Free Elective (3)
<b>TOTAL</b>	<b>15 sem. hrs.</b>

#### Seventh Semester

COMM495	Communication Studies Elective (3)
	Senior Capstone (3)
	Free Elective (3)
	Free Elective (3)
	Free Elective (3)
<b>TOTAL</b>	<b>15 sem. hrs.</b>

#### Eighth Semester

COMM496	Internship (3-15) or Free Electives (3-15)
<b>TOTAL</b>	<b>15 sem. hrs.</b>

## English and Liberal Studies Department

FACULTY: Jeffrey Bartone, Mary Paniccia-Carden, John Cussen, Deborah A. Dubartell, Corbin Fowler, Bonnie L. Gaarden, Robert Bernard Hass, Robert W. Hellstrom, Robert W. Holderer, William R. Hunter, Elisabeth W. Joyce, Janet C. Kinch, Thomas J. Lipinski, Caroline N. Nobile, John Repp, Paul R. Rovang, Karen Seubert, Donald G. Sheehy, Jeremy Sideris, Roger L. Solberg, Stephen Sullivan, S.A. Taylor, Catherine Whitley

The English program pursues the following goals: (1) to teach students that writing is integral to creating and conveying new ideas; (2) to expand the student's ability to write effectively; (3) to enhance the students' ability to analyze and critique texts; (4) to acquaint students with an array of significant creative and critical works.

To meet these goals, the Department of English and Liberal Studies offers the following Bachelor of Arts programs. For information



concerning the requirements for the Bachelor of Science in Education degree programs in Secondary English, please refer to the Secondary Education Department.

The campus newspaper and the literary magazine provide students with extracurricular writing opportunities.

The Department of English and Liberal Studies offers minors in English, Creative Writing, Theatre Arts, Philosophy, Critical Thinking, and Religious Studies. Descriptions of minors appear at the end of the Academic Affairs – Curricula and Organization section of the catalog.

The Philosophy program encourages intellectual, ethical and aesthetic growth. Philosophy courses consider issues that range over the entire area of human concerns and interests. Philosophy courses provide excellent preparation for graduate study in many areas and for professional programs in law and theology.

The Theatre Arts program sponsors dramatic activities on campus. Students from many departments participate in performances. Theatre Arts minors learn from play productions as well as from class work.

## Associate of Arts Degree

### Liberal Studies

This associate degree is designed to meet the needs of persons seeking a two year program of higher education and accompanying credentials. The objectives of the program are:

- To foster the development and appreciation of the arts and sciences;
- To foster the development of communication and computational skills;
- To foster the discovery and development of students' interests and skills;
- To support the development of decision-making skills;
- To provide training/retraining in a student's chosen field;
- To provide an environment for personal, academic, and professional maturity.

### Curriculum

This program may be satisfied in two ways. Track A is satisfied by the completion of any of over 50 University-approved minors. Track B is satisfied by the completion of 18 hours of advanced humanities courses (non-remedial courses that are neither general education skills nor core courses) from at least four disciplines: Art, English and Theatre Arts, Foreign Languages, History, Music, Philosophy, or Communication Studies.

I. General Education	30 sem. hrs.
A. Skills	12 sem. hrs.
ENGL101 College Writing Skills	
ENGL102 Specialized College Writing Research	
CSCI104 Essential Computing I or Discipline specific Computer Competency Course	
B. Core	18 sem. hrs.
One approved course from six of seven in each Core category (Artistic Expression, World Civilizations, American Civilizations, Human Behavior, Cultural Diversity/Social Pluralism, Ethics, and Science and Technology)	
II. Specialized Field	
Track A: Any University-approved minor	15-24 sem. hrs.
Track B: At least one advanced course from four of seven advanced humanities disciplines (Art, English and Theatre Arts, Foreign Languages, History, Music, Philosophy, or Communication Studies).	

Track C: This track requires successful completion of career-related courses. Student's advisor must approve the combination of courses as appropriate to the student's career pursuits.

III. Electives	6-15 sem. hrs.
To be chosen in close consultation with the program advisor.	
<b>TOTAL</b>	<b>60 sem. hrs.</b>

## ASSOCIATE OF ARTS – LIBERAL STUDIES

### (Suggested Four-Semester Sequence)

#### First Semester

ENGL101	College Writing Skills (3)
MATH104	Finite Math (3) or higher
	Core (3)
	Core (3)
<b>TOTAL</b>	<b>12 sem. hrs.</b>

#### Second Semester

ENGL102	Specialized College Writing Research (3)
CSCI104	Essential Computing I (3) or Discipline specific Computer Competency Course
	Core (3)
	Core (3)
	Free Elective (3)
<b>TOTAL</b>	<b>15 sem. hrs.</b>

#### Third Semester

	Core (3)
	Free Elective (3)
	Free Elective (3)
	Free Elective (3)
	Free Elective (3)
<b>TOTAL</b>	<b>15 sem. hrs.</b>

#### Fourth Semester

	Select one University approved minor or
	Select six advanced humanities courses spread over four approved disciplines or combination of career-related courses approved by your advisor.
<b>TOTAL</b>	<b>18 sem. hrs.</b>

## Bachelor of Arts Degree

### English

I. General Education Requirements	42 sem. hrs.
II. Major Requirements	39 sem. hrs.
A. Concentration in Literature	
1. Foundations Course (3 sem. hrs.)	
ENGL209	Foundations for Literary Study (3)
2. Cluster A Courses (6 sem. hrs.)	
Choose two (at least one at 200-level) from	
ENGL260	Literature of the Ancient and Classical Worlds (3)
ENGL261	Medieval and Renaissance Literature (3)
ENGL325	Literature of the Bible I (3)
ENGL326	Literature of the Bible II (3)
ENGL332, 333, 334	Topics in Medieval and Renaissance Literature (3)
ENGL388	Mythology (3)
ENGL389	World Mythologies (3)
ENGL411, 412	Medieval and Renaissance Authors (3)

3. Cluster B Courses (6 sem. hrs.)  
*Choose two (at least one at 200-level) from*  
 ENGL241 British Literature I (3)  
 ENGL242 British Literature II (3)  
 ENGL335-7 Topics in British Literature (3)  
 ENGL413, 414 British Authors (3)
  4. Cluster C Courses (6 sem. hrs.)  
*Choose two (at least one at 200-level) from*  
 ENGL201 American Literature Survey I  
 (Origins-1865) (3)  
 ENGL202 American Literature Survey II  
 (1865-Present) (3)  
 ENGL309 African-American Literature I (3)  
 ENGL310 African-American Literature II (3)  
 ENGL338, 339, 340  
 Topics in American Literature (3)  
 ENGL415, 416 American Authors (3)
  5. Literature Electives (12 sem. hrs.)  
*Choose four additional literature courses at 300- or 400-level*
  6. Capstone Courses (6 sem. hrs.)  
 ENGL489 Modern Critical Theory (3)  
 ENGL499 Thesis Seminar in Literature (3)
- B. Concentration in Writing**
1. Literature Survey Courses (12 sem. hrs.)  
*Choose four from*  
 ENGL201 American Literature Survey I  
 (1620-1914) (3)  
 ENGL202 American Literature Survey II  
 (1914-Present) (3)  
 ENGL241 British Literature I (3)  
 ENGL242 British Literature II (3)  
 ENGL260 Literature of the Ancient and  
 Classical Worlds (3)  
 ENGL261 Medieval and Renaissance  
 Literature (3)
  2. Writing Core (6 sem. hrs.)  
 ENGL301 Creative Writing (3)  
 ENGL385 Advanced Composition (3)
  3. Intermediate Writing Courses (12 sem. hrs.)  
*Choose four from*  
 ENGL322 Screenwriting (3)  
 ENGL370 Business Writing (3)  
 ENGL402 Fiction Workshop (3)  
 ENGL403 Poetry Workshop (3)  
 ENGL404 Technical Writing (3)  
 ENGL440 Essay Workshop (3)  
 THEA351 Playwriting (3)
  4. Advanced Writing Courses (6 sem. hrs.)  
*Choose two from*  
 ENGL410 Advanced Technical Writing (3)  
 ENGL441 Advanced Fiction Writing (3)  
 ENGL442 Advanced Poetry Writing (3)  
 ENGL443 Advanced Creative Nonfiction (3)  
 ENGL444 Advanced Screenwriting (3)
  5. Capstone Course (3 sem. hrs.)  
 ENGL498 Thesis Seminar in Writing (3)
- III. Free Electives 39 sem. hrs.  
 TOTAL 120 sem. hrs.

**BACHELOR OF ARTS – ENGLISH/LITERATURE**  
**(Suggested Eight-Semester Sequence)**

**First Semester**

ENGL101	College Writing Skills (3)
MATH104	Finite Mathematics (3) or higher
CSCI104	Essential Computing I (3) or Discipline-specific Computer Competency Course
	Free Elective (3)
	Core 4 (3)
TOTAL	15 sem. hrs.

**Second Semester**

ENGL102	Specialized College Writing and Research Skills (3)
ENGL209	Foundation for Literary Study (3)
	Cluster A Elective (3)*
	Core 1 (3)
	Core 6 (3)
TOTAL	15 sem. hrs.

**Third Semester**

Cluster A Elective (3)*	
Cluster B Elective (3)**	
Distribution 1 (3)	
Core 2 (3)	
Core 5 (3)	
TOTAL	15 sem. hrs.

**Fourth Semester**

Cluster B Elective (3)**	
Cluster C Elective (3)***	
Core 3 (3)	
Core 7 (3)	
Distribution 2 (3)	
TOTAL	15 sem. hrs.

**Fifth Semester**

Cluster C Elective (3)***	
Literature Elective (3)	
Free Elective (6)	
Distribution 3 (3)	
TOTAL	15 sem. hrs.

**Sixth Semester**

ENGL489	Literature Elective (3)
	Modern Critical Theory (3)
	Free Electives (9)
TOTAL	15 sem. hrs.

**Seventh Semester**

Literature Elective (6)	
Free Electives (9)	
TOTAL	15 sem. hrs.

**Eighth Semester**

ENGL499	Thesis Seminar in Literature (3)
	Free Electives (12)
TOTAL	15 sem. hrs.

\*Cluster A courses – choose two of the following: ENGL260, ENGL261, ENGL325, ENGL326, ENGL332, ENGL333, ENGL334, ENGL388, ENGL389, ENGL411, and/or ENGL412

\*\*Cluster B courses – choose two of the following: ENGL241, ENGL242, ENGL335-ENGL337, ENGL413, and/or ENGL414

\*\*\*Cluster C courses – choose two of the following: ENGL201, ENGL202, ENGL309, ENGL310, ENGL338, ENGL339, ENGL340, ENGL415, and/or ENGL416

In addition to the above requirements for English-writing majors, the Department STRONGLY RECOMMENDS the successful completion of at least two additional ENGL courses at the 300- or 400-level.

To graduate with a B.A. in English, students must earn at least a C+ cumulative average in major courses, a C or better in each course indicated as a prerequisite, and a B or better in the pertinent thesis seminar.

**BACHELOR OF ARTS – ENGLISH/WRITING**  
 (Suggested Eight-Semester Sequence)
**First Semester**

ENGL101	College Writing Skills (3)
MATH104	Finite Mathematics (3) or higher
CSCI104	Essential Computing I (3) or Discipline-specific Computer Competency Course
	Free Elective (3)
	Core 4 (3)
	<b>TOTAL</b> 15 sem. hrs.

**Second Semester**

ENGL102	Specialized College Writing and Research Skills (3)
	Core 1 (3)
	Core 2 (3)
	Core 5 (3)
	Core 7 (3)
	<b>TOTAL</b> 15 sem. hrs.

**Third Semester**

ENGL301	Creative Writing (3)
	Choose one of the following: ENGL201, ENGL241 or ENGL260 (3)
	Core 3 (3)
	Distribution 1 (3)
	Free Elective (3)
	<b>TOTAL</b> 15 sem. hrs.

**Fourth Semester**

ENGL385	Advanced Composition (3)
	Choose one of the following: ENGL202, ENGL242 or ENGL261 (3)
	Core 6 (3)
	Distribution 2 (3)
	Free Elective (3)
	<b>TOTAL</b> 15 sem. hrs.

**Fifth Semester**

	Choose one of the following: ENGL201, ENGL241, or ENGL261 (3)
	Choose two Intermediate Writing Courses (6)
	Distribution 3 (3)
	Free Elective (3)
	<b>TOTAL</b> 15 sem. hrs.

**Sixth Semester**

	Choose one of the following: ENGL202, ENGL242, or ENGL262 (3)
	Choose two Intermediate Writing Courses (6)
	Free Elective (6)
	<b>TOTAL</b> 15 sem. hrs.

**Seventh Semester**

	Choose one Advanced Writing Course (3)
	Free Electives (12)*
	<b>TOTAL</b> 15 sem. hrs.

**Eighth Semester**

ENGL498	Choose one Advanced Writing Course (3)
	Thesis Seminar (3)
	Free Electives (9)**
	<b>TOTAL</b> 15 sem. hrs.

\*It is recommended that at least two of these courses be 300- or 400-level ENGL courses.

\*\*It is recommended that at least two of these courses be literature courses.

## History, Anthropology, and World Languages Department

**FACULTY:** Lenore Barbian, Ihor Bemko, Xin-Zhu J. Chen, Janusz Czejdo, Stacy Dunn, Amanda Frantz-Mamani, Armored Gruber, Leo Gruber, Dennis Hickey, Jerra Jenrette, Joseph W. Laythe, Steven R. Nachman, Andre Smith, Ronald L. Spiller

**Mission Statement**

The History, Anthropology, and World Languages Department seeks to promote students' knowledge, curiosity, and empathetic understanding about peoples, cultures, and languages across time and space. The disciplines housed in the department together encompass the study of humanity: its biological and cultural basis, its divergent and changing expressions from prehistoric times to the present and its possibilities for the future. These disciplines guide students in a critical examination of the events that shaped the lives of earlier generations and created the world in which they live. Departmental courses teach students to think analytically, to apply scientific methodology, articulate and to communicate their thoughts, to use knowledge in ways that empower and improve the circumstances of their lives, to appreciate cultural and human diversity and recognize the common humanity on which such diversity is based, and ultimately, to have a heightened sense of who they are and who they can be. While the department does prepare a number of its students for advanced degree programs and academic careers, its greater mission is to prepare them for any career or life goal that requires responsible citizenship and critical thinking as a basis for effective action.

The Department of History, Anthropology, and World Languages offers five undergraduate degree programs including the BA History, and the BA Anthropology. It also includes minors in Africana Studies, Anthropology, Archaeology, German, Spanish, History, and Latin American Studies.

**Placement:** Students enrolled in World Language courses will be placed by the department according to their background and proficiency in the foreign language.

**“The Classroom Without Walls”**

The Department of History, Anthropology and World Languages offers students many unique and innovative ways to learn about the past. From our traditional courses inside the classrooms of Hendricks Hall, to semester class trips and club trips, we also offer annual Summer Road Courses to sites across the country, East to West, North to South. These challenging and invigorating courses have become the trademark of the Department and give Edinboro University students opportunities to expand their horizons beyond the four walls of our campus classrooms. Whether it is traveling south to study the Civil Rights Movement, the Civil War at Gettysburg, Antietam, or Shiloh, women's history in Seneca Falls, Boston, or Washington, or spending four weeks following the Oregon Trail, Lewis and Clark Trail, or through the broad expanses of the Southwest.

The Department also offers Study Abroad programs to Poland each year and to Mexico during Wintersession. We, are committed to teaching and exposing students to “living history and experiencing culture and language”.

### **BA HISTORY (Comprehensive, Digital History, and Military History concentrations)**

The study of history provides students with an understanding of the human condition of the present and suggestions on how individuals can fulfill themselves in today's complex world. Students in history are provided with the analytical tools most important to career advancement, the abilities to read and write at a high level, to organize their thoughts and actions, and the ability to see themselves and their situation in perspective. In a world in which communication skills, the need to "see the big picture," and sensitivity to cultural differences are increasingly important, training in history provides students with the requisite tools. **The History program prepares students to engage in research, analysis, and critical thinking which prepares them for to be competitive in a wide range of career options.**

#### **Graduates of the Bachelor of Arts in History-Comprehensive will be able to:**

- Recognize and define a problem, gather and synthesize data conduct research on a topic using primary and secondary sources, resulting in a scholarly written work with substantive evidence and documentation
- Understand general historical terminology, identify the general principles of the different schools of historical thought, and apply the professional standards of the historical discipline.
- demonstrate a broad knowledge of U.S. history
- Demonstrate a broad knowledge of world history
- Demonstrate a more specific content knowledge on particular historical themes or subjects

#### **Graduates of the Bachelor of Arts in History-Digital History will be able to:**

- Recognize and define a problem, gather and synthesize data conduct research on a topic using primary and secondary sources, resulting in a scholarly written work with substantive evidence and documentation
- Understand general historical terminology, identify the general principles of the different schools of historical thought, and apply the professional standards of the historical discipline.
- demonstrate a broad knowledge of U.S. history
- Demonstrate a broad knowledge of world history
- Demonstrate a more specific content knowledge on particular historical themes or subjects
- Analyze how digital tools and resources are enabling new methods for analysis in traditional print scholarship and the possibilities for new forms of scholarship
- explore tools for text analysis and visualization as well as work on interpreting new media forms as primary sources
- explore a range of production of new media history resources, including both practical work on project management and design
- Investigate the social, historical, cultural, and aesthetic implications of nonfiction film through historical overview of various films
- design and produce a digital film or documentary

#### **Graduates of the Bachelor of Arts in History-Military History will be able to:**

- Recognize and define a problem, gather and synthesize data conduct research on a topic using primary and secondary sources, resulting in a scholarly written work with substantive evidence and documentation
- Understand general historical terminology, identify the general principles of the different schools of historical thought, and apply the professional standards of the historical discipline.
- Analyze the policy issues related to the role of the Military in society
- Examine the contributions of the Military in US and world history
- demonstrate a broad knowledge of U.S. history

- Demonstrate a broad knowledge of world history
- Demonstrate a more specific content knowledge on particular historical themes or subjects
- Communicate effectively with government, NGOs, and military officials on important political, economic, and social issues

The B.A. degree may lead to graduate study in history or the study of law. Some history majors will choose to add education to their programs and teach at the elementary or secondary level. However, the mass media-journalism, radio and television; for-profit and non-profit research organizations, and many businesses employ persons who use the kind of method and research skills which are commonly taught in nearly every history class.

Most importantly, history, while grounded in a tradition of scholarship and rational thought, helps students to remain intellectually flexible, preparing them to face the challenges of the "real" world and its rapid changes.

What can a history major do besides teach? If one aspires to be a lawyer, an undergraduate major in history with related courses will provide the necessary background for law school. In the fields of mass media – journalism, radio and television – there are positions which require training in historical methodology and research. A combined art and history major with some graduate work can open the door as curator or archivist. In order to help students achieve this, students may focus on Public and Applied History. If one wants to go on to Seminary, history is the logical major. History combined with some training in another area can also open up some interesting possibilities, for instance, business and economics – business and industry recruit Liberal Arts graduates for a variety of positions that do not require extended training in business. Then there is the biggest employer of all, the government – federal, state and municipal. There are many positions at all levels, which require no particular undergraduate specialty.

"The study of history is more than mere memorization of dates! It is about people and their social, economic, political and cultural experiences. The study of history teaches us to learn from the past, improve the present, and prepare for the future. Students will find that historical study gives them the appropriate skills and broad base of knowledge to prepare for jobs in a variety of professions. Students of history learn to organize, analyze, and communicate effectively. They come to realize the complexity which characterized the past is the same in the present. To not know one's history is to have "historical amnesia." Study and Learn History – Prepare For Tomorrow!"

Students in the BA History **will choose between several concentrations including Comprehensive, Digital, or Military History. All History majors will take the same methods and foundations courses but will take different upper level and advanced History courses depending on their Concentration choice. Students who choose the Comprehensive Concentration may take a broad range of courses in the History Content area OR they may choose to concentrate in specific areas of History. Areas of concentration may include the following though students are not limited to these.**

- Digital History
- Military History
- Women's History
- Global Societies (Europe, Middle East, Asia, Africa, Latin America)
- Public History/Applied History
- Violence and Power
- Cultural and Intellectual History
- Colonial and Modern U.S.
- Nazi Germany and the Holocaust

**BA ANTHROPOLOGY****WHY ANTHROPOLOGY?**

Of all the academic disciplines that study people and their activities, anthropology is the only one that studies people in all their aspects: physical, social, and cultural. Anthropologists ask the question: What does it mean to be human? They examine human biology and behavior in natural settings across both time and space. They trace human physical and cultural evolution from primate beginnings to the present. They explore the diversity of modern biological and cultural adaptations in order to understand the ways in which different peoples respond to their environment as well as to uncover basic similarities of all humankind.

Anthropologists apply their knowledge in order to improve people's lives. With such a broad outlook on humanity, the student may pursue many different career directions with a Bachelor of Arts in Anthropology. Anthropologists work in many areas including education, museums, government, private sector, business, and social services.

**THE BACHELOR OF ARTS IN ANTHROPOLOGY**

The Bachelor of Arts in Anthropology can be completed by taking 42 credits, 33 of which are in anthropology (in addition to university-wide requirements). Required core courses include Introduction to Anthropology, Introduction to Archaeology, Introduction to Physical Anthropology, Cultures of the World, Anthropological Theory, and Elements of Statistics. Forty-eight credits in elective courses are also available.

Anthropology students can tailor their individual programs to include a variety of other interests including art, law, sociology, geography, history, music, biology, psychology, education, language, economics, to name only a partial list. Consequently, anthropology students often achieve one or two minors in other areas of interest which complement their specific interests in anthropology. Independent study and internship experiences are encouraged.

Graduates of the Bachelor of Arts in Anthropology will be able to:

- Develop and demonstrate basic knowledge and understanding of key concepts associated with three of the four sub-fields of anthropology (archaeology, physical anthropology, and socio-cultural anthropology).
- Develop in-depth knowledge and understanding of one of the above three subfields of anthropology.
- Demonstrate an understanding of the culture concept and of related concepts, including cultural relativism and holism.
- Develop knowledge of and demonstrate understanding of the scientific method as well as research, analytic, and interpretive methods used in anthropology.
- Demonstrate the ability to make informed and ethical decisions pertaining to matters of human diversity and cultural and biological/genetic property.
- Develop and demonstrate communication skills including computer skills.
- Develop and demonstrate written and oral communication skills.

**CAREER OPPORTUNITIES FOR STUDENTS IN DEPARTMENTAL PROGRAMS:**

Many employers in the business world – banks, insurance companies and industries – seek college graduates with a Liberal Arts background. If you desire this type of career, a B.A. degree in History, Anthropology, German, World Languages and Cultures, or Women's Studies provides flexibility.

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**Bachelor of Arts Degree****History - Comprehensive**

I.	General Education Requirements	42 sem. hrs.
II.	Concentration	
	A. Research Methodology Courses	6 sem. hrs.
	HIST100 Study of History (3)	
	HIST300 Introduction to Applied Historical Research (3)	
	B. Foundations*	12 sem. hrs.
	HIST101 World Civilization I (3)	
	HIST102 World Civilization II (3)	
	HIST261 History of U.S. I (3)	
	HIST262 History of U.S. II (3)	
**C.	Required Advanced History Courses	6 sem. hrs.
	HIST401 National – International Issues (3)	
	HIST402 Digital History (3)	
	D. Concentration	15 sem. hrs.
	Students select any 5 upper level history courses (301 or above; at least three courses must be advanced, which means 380+, 400 and 500 level)	
	E. Capstone Experience	3 sem. hrs.
	Students will complete HIST497 Capstone in History OR HIST495 Internship in History	
III.	Foreign Languages	6 sem. hrs.
	Students must complete a 6-hour sequence (two courses from the same prefix) in a foreign language; courses must begin at 101 or higher	
IV.	Free Electives**	
	A minimum of 24 hours of courses in the free electives and/or distribution must be 300 level and above.	
	<b>TOTAL</b>	<b>120 sem. hrs.</b>

\*\*Internships may be counted partially within the Concentration and within the category of "Free Electives."

Other Requirements:

Students must take POLI101 in Core 3, ANTH180 in Core 4, and MATH260 in Distribution 3.

History majors must earn a minimum C grade in the History Concentration II. History courses wherein a D is earned will not count in the BA History-Comprehensive.

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**Bachelor of Arts Degree****History – Digital History**

I.	General Education Requirements	42 sem. hrs.
II.	Concentration	
	**A. Research Methodology Courses	6 sem. hrs.
	HIST100 Study of History (3)	
	HIST300 Introduction to Applied Historical Research (3)	
	**B. Foundations*	6 sem. hrs.
	HIST101 World Civilization I (3)	
	HIST102 World Civilization II (3)	
	HIST261 History of U.S. I (3)	
	HIST262 History of U.S. II (3)	
**C.	Public/Applied History Courses	15 sem. hrs.
	HIST 401 National and International Issues (3)	
	HIST 402 Digital History (3)	
	HIST 370 American Dream on Film (3)	
	HIST 411 Public History (3)	
	HIST 410 Oral History (3)	

- \*\*D. Required Video Production Courses 9 sem. hrs.  
 JOUR 307 Audio Production (3)  
 JOUR 309 Studio (3)  
 JOUR 419 Advanced Studio Production (3)
- E. Required Computer Science course 3 sem. hrs.  
 CSCI 130 Programming I (3)
- \*\* F. Capstone Experience 3 sem. hrs.  
 \*\*\*HIST 495 Internship in History or HIST 498 Digital History Practicum  
 Students may count up to 6 hours of Internship or Practicum in Free Electives
- III. Free Electives 36 sem. hrs.

\*\* History majors must earn a minimum C grade in the History Concentration II. History courses wherein a D is earned will NOT count in the BA History-Digital History.  
 \*\*\*Students are encouraged to complete 12 credits of practicum over several semesters and count 9 of those hours in Free Electives.

We also recommend that students take the following and count them in Free Electives.

JOUR 226	Digital Media Design (permission of instructor)
JOUR 250	Photojournalism
JOUR 439	Tv-News-Documentary
ART 407	Documentary Film (Students enrolling must have completed JOUR 419)
ANTH 401	Ethnographic Field Methods
CSCI 230	Programming II

Students are encouraged to take Foreign Languages in the Free Electives.

## Bachelor of Arts Degree

### History – Military History

- I. General Education Requirements 42 sem. hrs.
- II. Concentration
  - \*\*A. Research Methodology Courses 6 sem. hrs.  
 HIST100 Study of History (3)  
 HIST300 Introduction to Applied Historical Research (3)
  - \*\*B. Foundations\* 12 sem. hrs.  
 HIST101 World Civilization I (3)  
 HIST102 World Civilization II (3)  
 HIST261 History of U.S. I (3)  
 HIST262 History of U.S. II (3)
  - \*\*C. Required Advanced History Courses 9 sem. hrs.  
 HIST 402 Digital History (3)  
 HIST 401 National-International Issues (3)  
 HIST 475 Seminar in Military Thought (3)
  - \*\*D. Concentration 12 sem. hrs.  
 Select 4 courses from the concentration list of courses. At least 3 of these courses must be Advanced which means 380+, 400, and 500 level courses.
  - \*\*E. Capstone Experience 3 sem. hrs.  
 HIST 497 Capstone in History or  
 HIST 495 Internship in History  
 Students may count up to 6 hours of Internship in the Free Electives and/or History concentration.
- III. Foreign Languages 6 sem. hrs.  
 Students must complete a 6-hour sequence (two courses from the same prefix Beginning at 101 or higher) in a foreign language.
- IV. Free Electives 30 sem. hrs.  
 A minimum of 24 hours of courses in the Free Electives and/or Distribution must be 300 level and above.

\*\*History majors must earn a minimum C grade in the History Concentration II. History Courses wherein a D is earned will NOT count In the BA History-Military History.

#### Military History Courses:

HIST 330	World War II: Causes Through Consequences
HIST 333	History of Terrorism
HIST 343	Era of Napoleon and the French Revolution
HIST 362	The American Revolution
HIST 375	US Military History
HIST 376	US in Vietnam
HIST 383	America in the Revolutionary World
HIST 476	Women and War
HIST 478	Indian Wars of North America
HIST 565	Slavery, Civil War, and Reconstruction
HIST 331	Ancient History to the Fall of the Roman Empire
HIST 332	Medieval Europe
HIST 394	Special Topics in History
HIST 475	Seminar in the History of Military Thought

#### HONORS PROGRAM IN HISTORY

This program has been developed in order to provide the student majoring in history with a challenge to achieve a degree of academic excellence in this area.

Requirements for the conferring of honors are as follows:

1. a minimum of 33 hours of B work in history.
2. a minimum grade of B in HIST100 The Study of History.
3. a minimum grade of B in at least three upper division courses in which the student has contracted with the instructor to do honors work.
4. achievement of 3.3 average in history with a 3.0 cumulative average for all courses.
5. write a senior thesis.

For further information about the program contact the chairperson of the Honors Committee in the History, Anthropology and World Languages Department.

### BACHELOR OF ARTS – HISTORY - COMPREHENSIVE (Suggested Eight-Semester Sequence)

#### First Semester

ENGL101	College Writing Skills (3)
MATH104	Finite Mathematics (or higher) (3)
HIST100	Study of History (3)
HIST101	World Civilizations I (3)
FORL101	(first course in language)
	TOTAL 15 sem. hrs.

#### Second Semester

ENGL102	Specialized College Writing and Research Skills (3)
CSCI104	Essential Computing I or CSCI123 or CSCI125 (3)
FORL102	(second course in language) (3)
HIST102	World Civilizations II (3)
ANTH180	Introduction to Anthropology (3)
	TOTAL 15 sem. hrs.

#### Third Semester

HIST261	History of U.S. I (3)
	History Content Course at 301 Level or above (3)
POLI101	American Politics (3)
	Core (3)
	Free Elective (3)
	TOTAL 15 sem. hrs.

**Fourth Semester**

HIST262	History of U.S. II (3)		
MATH260	Elements of Statistics (3)		
	Core (3)		
	Free Elective (3)		
	Free Elective (3)		
	<b>TOTAL</b>	<b>15 sem. hrs.</b>	

**Fifth Semester**

HIST300	Intro to Applied Historical Research (3)		
HIST401	National and International Issues (3)		
	Foreign Languages (3)		
	Core (3)		
	Distribution (3)		
	<b>TOTAL</b>	<b>15 sem. hrs.</b>	

**Sixth Semester**

HIST402	Digital History (3)		
	History Content Course at 380 or above level (3)		
	Distribution (3)		
	Free Elective (3)		
	Free Elective (3)		
	<b>TOTAL</b>	<b>15 sem. hrs.</b>	

**Seventh Semester**

	History Content Course at 380 or above level (3)		
	History Content Course at 301 or above level (3)		
	Free Elective (3)		
	Free Elective (3)		
	Free Elective (3)		
	<b>TOTAL</b>	<b>15 sem. hrs.</b>	

**Eighth Semester**

	History Content Course at 380 or above level (3)		
HIST497	Capstone in History (3) OR		
HIST495	Internship		
	Free Elective (3)		
	Free Elective (3)		
	Free Elective (3)		
	<b>TOTAL</b>	<b>15 sem. hrs.</b>	

**BACHELOR OF ARTS – HISTORY: DIGITAL HISTORY  
(Suggested Eight-Semester Sequence)****First Semester**

ENGL101	College Writing Skills (3)		
MATH104	Finite Mathematics (3) or higher		
HIST100	Study of History (3)		
HIST101	World Civilizations I (3) (to be counted in Core 2)		
	Core (3)		
	<b>TOTAL</b>	<b>15 sem. hrs.</b>	

**Second Semester**

ENGL102	Specialized College Writing and Research Skills (3)		
CSCI104	Essential Computing I (3) or Discipline-specific Computer Competency Course (or CSCI 123 or 125)		
HIST102	World Civilizations II (3)		
ANTH 180	Introduction to Anthropology (3)		
Core 6	(JOUR 200, ANTH 220, OR HIST 105) (3)		
	<b>TOTAL</b>	<b>15 sem. hrs.</b>	

**Third Semester**

HIST261	History of U.S. I (3) (to be counted in Core 3)		
MATH260	Elements of Statistics (3)		
CSCI 130	Core (3)		
	Programming I (3)		
	Free Elective (3)		
	<b>TOTAL</b>	<b>15 sem. hrs.</b>	

**Fourth Semester**

HIST262	History of U.S. II (3)		
HIST300	Intro to Applied Historical Research (3)		
JOUR 307	Audio Production (3)		
	Core (3)		
	Freedom of Speech (3)		
COMM 360	<b>TOTAL</b>	<b>15 sem. hrs.</b>	

**Fifth Semester**

HIST 401	National and International Issues (3)		
HIST 411	Public History (3)		
	Core (3)		
	Core (3)		
	Free Elective (3)		
	<b>TOTAL</b>	<b>15 sem. hrs.</b>	

**Sixth Semester**

HIST 410	Oral History (3)		
JOUR 309	Studio (3)		
	Distribution (3)		
	Free Elective (3)		
	Free Elective (3)		
	<b>TOTAL</b>	<b>15 sem. hrs.</b>	

**Seventh Semester**

HIST 402	Digital History (3)		
JOUR 419	Advanced Video Production (3)		
	Free Elective (3)		
	Free Elective (3)		
	Free Elective (3)		
	<b>TOTAL</b>	<b>15 sem. hrs.</b>	

**Eighth Semester**

HIST498	Practicum in Digital History (3) OR		
HIST495	Internship		
	Free Elective (3)		
	Free Elective (3)		
	Free Elective (3)		
	<b>TOTAL</b>	<b>15 sem. hrs.</b>	

**BACHELOR OF ARTS – HISTORY: MILITARY HISTORY  
(Suggested Eight-Semester Sequence)****First Semester**

ENGL101	College Writing Skills (3)		
MATH104	Finite Mathematics (3) or higher		
HIST100	Study of History (3)		
HIST101	World Civilizations I (3)		
FORL 101	(first course in language) (3)		
	<b>TOTAL</b>	<b>15 sem. hrs.</b>	

**Second Semester**

ENGL102	Specialized College Writing and Research Skills (3)		
CSCI104	Essential Computing I (3) or CSCI 123 or CSCI 125)		
HIST102	World Civilizations II (3)		
FORL 102	(second course in language) (3)		
ANTH 180	Introduction to Anthropology (3)		
	(to be counted in Core 4)		
	<b>TOTAL</b>	<b>15 sem. hrs.</b>	

**Third Semester**

HIST261	History of U.S. I (3)		
	History Content Course at 300 Level or above (3)		
POLI 102 or 103	(to be counted in Core 2)		
POLI 101	(to be counted in Core 3)		
MATH260	Elements of Statistics (3)		
	<b>TOTAL</b>	15 sem. hrs.	

**Fourth Semester**

HIST262	History of U.S. II (3)		
HIST300	Intro to Applied Historical Research (3)		
	Core (3)		
	Core (3)		
	Distribution (3)		
	<b>TOTAL</b>	15 sem. hrs.	

**Fifth Semester**

HIST 401	National and International Issues (3)		
	History Content Course at 380 or above level (3)		
	Core (3)		
	Core (3)		
	Distribution (3)		
	<b>TOTAL</b>	15 sem. hrs.	

**Sixth Semester**

HIST 402	Digital History (3)		
	History Content Course at 380 or above level (3)		
	Free Elective (3)		
	Free Elective (3)		
	Free Elective (3)		
	<b>TOTAL</b>	15 sem. hrs.	

**Seventh Semester**

HIST 475	Seminar in the History of Military Thought (3)		
	Free Elective (3)		
	Free Elective (3)		
	Free Elective (3)		
	Free Elective (3)		
	<b>TOTAL</b>	15 sem. hrs.	

**Eighth Semester**

	History Content Course at 380 or above level (3)		
HIST497	Capstone in History (3) OR		
HIST495	Internship		
	Free Elective (3)		
	Free Elective (3)		
	Free Elective (3)		
	<b>TOTAL</b>	15 sem. hrs.	

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**Bachelor of Arts Degree****Anthropology**

The Bachelor of Arts degree in Anthropology is structured to give the student a background in theory, methodology and program content. In addition to preparing the student for possible graduate education the general goal of the program is to provide the student with the basic anthropological skills of thinking, learning, and evaluating so that he/she may assume a variety of professional positions and become a contributing member of society.

Majors in the program have had considerable success in being admitted to graduate schools. Recent graduates have been admitted to the University of Chicago, Northwestern, Ohio State, Penn State, the University of Pittsburgh, and Case-Western Reserve University.

I. General Education Requirements		42 sem. hrs.	
II. Required Anthropology Courses		18 sem. hrs.	
	ANTH180	Introduction to Anthropology (3)	
	ANTH371	Introduction to Archaeology (3)	
	ANTH372	Cultures of the World (3)	
	ANTH381	Anthropological Theory (3)	
	ANTH385	Introduction to Physical Anthropology (3)	
	ANTH400	Capstone Seminar in Anthropology (3)	
III. Anthropology Electives		15 sem. hrs.	
	Electives currently available:		
	ANTH305	Anthropology of Food and Eating (3)	
	ANTH310	Introduction to Forensic Anthropology (3)	
	ANTH315	Ritual, Myth and Magic (3)	
	ANTH353	Applied Anthropology (3)	
	ANTH364	Culture, Illness and Curing (3)	
	ANTH365	Living with the Dead: Mortuary Practices in Cross-Cultural Perspective (3)	
	ANTH373	Archaeological Field Studies (3-12)	
	ANTH374	Indians of North America (3)	
	ANTH378	Native America Before Columbus (3)	
	ANTH379	From Early Man to Early Civilizations in the Old World (3)	
	ANTH390	Human Evolution (3)	
	ANTH397	Special Topics in Anthropology (1-3)	
	ANTH490	Independent Study (2-5)	
	ANTH403	The Human Language and It's Speakers	
	ANTH408	Ethnographic Methods	
	ANTH495	Internship in Anthropology (3-12)	
	ANTH500	Basic Archaeology for Teachers (3)	
	ANTH501	Anthropology of Aging (3)	
	ANTH510	Advanced Methods in Forensic Anthropology (4)	
IV. Foreign Language Requirement		6 sem. hrs.	
V. Required Supporting Course		3 sem. hrs.	
	MATH260	Elements of Statistics (3)	
VI. Free Electives		36 sem. hrs.	
	<b>TOTAL</b>	120 sem. hrs.	

Anthropology majors are encouraged to work closely with his/her advisor to construct a sound academic program which best relates to his/her goals and interests. Majors are strongly encouraged to complete an internship program during his/her senior year. Internship sites are arranged by the student and his/her advisor. When available, overseas study is encouraged.

The organizational and analytical skills learned by Anthropology majors have led them to professional employment in a wide array of professional positions.

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**BACHELOR OF ARTS – ANTHROPOLOGY**  
**(Suggested Eight-Semester Sequence)****First Semester**

ENGL101	College Writing Skills (3)		
CSCI104	Essential Computing I (3) or Discipline specific computer competency course		
ANTH180	Intro to Anthropology (3)		
	Foreign Language (3)		
	Core (3)		
	<b>TOTAL</b>	15 sem. hrs.	



**Second Semester**

MATH104	Finite Math (3) or higher		
ENGL102	Specialized College Writing and Research Skills (3)		
ANTH371	Introduction to Archeology (3) Foreign Language (3) Core (3)		
	<b>TOTAL</b>	15 sem. hrs.	

**Third Semester**

ANTH372	Cultures of the World (3)		
ANTH	Electives numbered 300 or higher (3) Free Electives (3) Core (3) Core (3)		
	<b>TOTAL</b>	15 sem. hrs.	

**Fourth Semester**

ANTH385	Intro to Physical Anthropology (3)		
MATH260	Elements of Statistics (3) Core (3) Distribution (3) Free Elective (3)		
	<b>TOTAL</b>	15 sem. hrs.	

**Fifth Semester**

ANTH	Electives numbered 300 or higher (3) Core (3) Distribution (3) Free Elective (3) Free Elective (3)		
	<b>TOTAL</b>	15 sem. hrs.	

**Sixth Semester**

ANTH	Electives numbered 300 or higher (3) Distribution (3) Free Elective (3) Free Elective (3) Free Elective (3)		
	<b>TOTAL</b>	15 sem. hrs.	

**Seventh Semester**

ANTH400	Capstone Seminar in Anthropology (3)		
ANTH	Electives numbered 300 or higher (3) Free Elective (3) Free Elective (3) Free Elective (3)		
	<b>TOTAL</b>	15 sem. hrs.	

**Eighth Semester**

ANTH381	Anthropology Theory (3)		
ANTH	Electives numbered 300 or higher (3) Free Elective (3) Free Elective (3) Free Elective (3)		
	<b>TOTAL</b>	15 sem. hrs.	

**WORLD LANGUAGES AND CULTURES AREA  
STUDY SPECIALIZATION**

Students majoring in world languages may, with the consent of their major area department chairperson, pursue World Language and Area Study Specialization in one or more of the world's major countries or culture areas.

Specializations now available at the University are African Studies (French as the language requirements); Latin American Studies (Spanish); Western Europe Studies (French, Spanish or German); Russian Studies (Russian); Canadian Studies (French) and Middle East Studies (French).

Students pursuing this program will undertake an independent study course in their major discipline and will be required to pass an oral comprehensive examination administered by interdisciplinary World Language and Area Study faculty committees.

The requirements for a specialization in any of the World Language and Area study fields will include a minimum of 30 hours of course work in at least four of the participating departments. The language requirements can be satisfied by the study of 12 hours of the area language or by demonstrating, by examination, intermediate competency in the spoken and written language.

Interested students should discuss this specialization with their major area department chairpersons as soon as possible after matriculation at the University. The following are included as examples of approved specializations:

**LATIN AMERICA (Spanish)**

POLI102	Introduction to Comparative Politics (3)
POLI341	Government and Politics of Latin America (3)
GEOG365	Geography of Latin America (3)
HIST223	History of Latin America I (3)
HIST224	History of Latin America II (3)
SPAN	Spanish (*12) Independent Study in the major discipline (3)

**RUSSIAN STUDIES**

POLI102	Introduction to Comparative Politics (3)
POLI342	Government and Politics of the Soviet Union (3)
GEOG370	Geography of Europe (3)
HIST353	History of Russia to 1825 (3)
HIST354	History of Russia Since 1825 (3)
RUSS	Russian (**12) Independent Study in the major discipline

\*Or demonstration of intermediate competency in Spanish.

\*\*Or demonstration of intermediate competency in Russian.

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**Bachelor of Arts Degree****Individualized Studies**

The Bachelor of Arts in Individualized Studies (BAIS) degree program is an appealing alternative for students who have: 1) unique career goals which cannot be met through any other course of study at the University and 2) circumstances which preclude the completion of another degree program in the traditional manner.

Students enrolled in the BAIS degree program may select and combine courses into concentration areas appropriate to their career pursuits.

I. General Education Requirements	42 sem. hrs.
II. Individualized Studies Concentration	36 sem. hrs.
A. At least 24 semester hours must come from the same course prefix in the individualized studies concentrations.	
B. Designated introductory courses may not be used to fulfill the individualized studies concentration.	
C. The computed GPA for courses used to fulfill the individualized studies concentration must be 2.0 or higher at the time of graduation.	
III. Free Electives	42 sem. hrs.
<b>TOTAL</b>	<b>120 sem. hrs.</b>

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## BACHELOR OF ARTS – INDIVIDUALIZED STUDIES (Suggested Eight-Semester Sequence)

**First Semester**

ENGL101	College Writing Skills (3)
MATH104	Finite Mathematics (3)
	Core 1: Artistic Expression (3)
	Core 2: World Civilizations (3)
	Core 4: Human Behavior (3)

**Second Semester**

	Computer Competency - CSCI 104 recommended (3)
ENGL102	Specialized College Writing and Research Skills (3)
	Core 3: American Civilizations (3)
	Core 5: Cultural Diversity (3)
	Core 7: Science and Technology (3)

**Third Semester**

	Concentration (3)
	Core 6: Ethics (3)
	Distribution 1: Arts and Humanities (3)
	Distribution 2: Social and Behavioral Sciences (3)
	Free Elective (3)

**Fourth Semester**

	Concentration (6)
	Distribution 3: Science and Mathematics (3)
	Free Elective (6)

**Fifth Semester**

	Concentration (9 credits)
	Free Elective (6)

**Sixth Semester**

	Concentration (9)
	Free Elective (6)

**Seventh Semester**

	Concentration (9)
	Free Elective (6)

**Eighth Semester**

	Concentration (6)
	Free Electives (9)

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## Journalism and Public Relations Department

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FACULTY: William Covington, Anthony C. Peyronel, Ronald Raymond, Terrence L. Warburton, R. James Wertz, Howard Alan Wilson

The Department of Journalism and Public Relations offers an undergraduate degree (B.A. Journalism and Public Relations) and requires students to select one of two specializations: Journalism or Public Relations.

**Internship**

The department's internship program includes a number of internship field study opportunities in special interest areas. Journalism and Public Relations majors may be granted from six to fifteen hours of academic credit for participating in approved off-campus activities in the field of journalism, public relations, or related fields.

All majors in the Department of Journalism and Public Relations must earn a minimum letter grade of "C" in all Journalism and Public Relations courses *and* in required English writing courses.

Graduates of the Bachelor of Arts in Journalism & Public Relations will be able to:

- Develop effective oral and written communication skills
- Develop competency in the use of technology
- Develop effective interpersonal and organizational communication skills
- Develop competency in research processes
- Develop knowledge of discipline-specific theories and practices

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## Bachelor of Arts Degree

**Journalism and Public Relations: Journalism**

I.	General Education Requirements	42 sem. hrs.
A.	Skills	12 sem. hrs.
	ENGL101	Coll. Writing Skills (3)
	ENGL102	Writing/Research (3)
	MATH104	Finite Math (3)
	JOUR226	Digital Media Design (3)
B.	Core Requirements	21 sem. hrs.
		Artistic Expression (3)
		World Civilization (3)
		American Civilizations (3)
		Human Behavior (3)
		Cultural Diversity & Social Pluralism (3)
		Ethics (3)
	JOUR200	Journal Ethics
		Natural Science (3)
C.	Distribution	9 sem. hrs.
	<i>Choose three (3) semester hours in each of the areas of distribution.</i>	
		Humanities & Fine Arts
	COMM107	Public Speak
		Social & Behavioral Sciences
		Natural Sciences & Math
II.	Journalism & Pub. Rel. Core	21 Sem. Hrs.
	JOUR216	Beginning Reporting (3)
	JOUR264	Intro to Mass Media (3)
	JOUR310	Broadcast Journalism (3)
	JOUR316	Intermediate Reporting (3)
	JOUR406	Communications Law (3)
	JOUR504	Advanced Electronic
	PR265	Intro to Public Relations (3)
		Journalism (capstone) (3)
A.	Program Electives	18 sem. hrs.
	<i>(Students must take the following 12 SH of JOUR courses as program electives in addition to 6 SH of Program Electives.)</i>	
	JOUR250	Photo Journalism (3)
	JOUR307	Audio Production (3)
	JOUR309	Intro to TV Production (3)
	JOUR420	Feature Writing (3)
VI.	Free Electives	39 sem. hrs.
	<i>(Select one internship/field experience for appropriate program concentration – Journalism or Public Relations.)</i>	
	JOUR496	Internship/Field Exp option in JOUR (6-15) OR
	JOUR496	Internship/Field Exp option in PR (6-15)
		TOTAL 120 sem. hrs.

**BACHELOR OF ARTS – JOURNALISM AND  
PUBLIC RELATIONS: JOURNALISM**  
(Suggested Eight-Semester Sequence)

**First Semester**

JOUR216	Beginning Reporting (3)		
ENGL101	College Writing Skills (3)		
MATH104	Finite Math (3)		
	Core (3) (Recommended JOUR214 Journalism and Society)		
	Core (3)		
	<b>TOTAL</b>	<b>15 sem. hrs.</b>	

**Second Semester**

JOUR226	Digital Media Design (3)		
JOUR200	Journalism Ethics (3)		
ENGL102	Writing and Research Skills (3)		
COMM107	Public Speaking (3)		
	Core (3)		
	<b>TOTAL</b>	<b>15 sem. hrs.</b>	

**Third Semester**

JOUR316	Intermediate Reporting (3)		
JOUR264	Intro to Mass Media (3)		
	Core (9)		
	<b>TOTAL</b>	<b>15 sem. hrs.</b>	

**Fourth Semester**

JOUR310	Broadcast Journalism (3)		
JOUR265	Intro to PR (3)		
	Distribution (3)		
	Electives (6)		
	<b>TOTAL</b>	<b>15 sem. hrs.</b>	

**Fifth Semester**

JOUR250	Photo Journalism (3)		
JOUR307	Audio Production (3)		
	Distribution (3)		
	Electives (6)		
	<b>TOTAL</b>	<b>15 sem. hrs.</b>	

**Sixth Semester**

JOUR420	Feature Writing (3)		
JOUR406	Communications Law (3)		
JOUR309	TV Production (3)		
	JOUR Elective (3)		
	Elective (3)		
	<b>TOTAL</b>	<b>15 sem. hrs.</b>	

**Seventh Semester**

JOUR504	Advanced Electronic Journalism (3)		
	JOUR Elective (3)		
	Electives (9)		
	<b>TOTAL</b>	<b>15 sem. hrs.</b>	

**Eighth Semester**

JOUR496	Internship (6-15) or Elective (3)		
	Electives (12)		
	<b>TOTAL</b>	<b>15 sem. hrs.</b>	

**Bachelor of Arts Degree**

**Journalism and Public Relations: Public Relations**

I.	General Education Requirements		42 sem. hrs.
A.	Skills		12 sem. hrs.
	ENGL101	Coll. Writing Skills (3)	
	ENGL102	Writing/Research (3)	
	MATH104	Finite Math (3)	
	JOUR226	Digital Media Design (3)	
B.	Core Requirements		21 sem. hrs.
		Artistic Expression (3)	
		World Civilization (3)	
		American Civilizations (3)	
		Human Behavior (3)	
		Cultural Diversity & Social Pluralism (3)	
		Ethics (3)	
		JOUR200 Journal Ethics	
		Natural Science (3)	
C.	Distribution		9 sem. hrs.
	<i>Choose three (3) semester hours in each of the areas of distribution.</i>		
	COMM107	Humanities & Fine Arts Public Speak Social & Behavioral Sciences Natural Sciences & Math	
II.	Journalism & Pub. Rel. Core		21 Sem. Hrs.
	JOUR216	Beginning Reporting (3)	
	JOUR264	Intro to Mass Media (3)	
	JOUR265	Intro to Public Relations (3)	
	JOUR310	Broadcast Journalism (3)	
	JOUR316	Intermediate Reporting (3)	
	JOUR406	Communications Law (3)	
	JOUR504	Advanced Electronic Journalism (capstone) (3)	
A.	Program Electives		18 sem. hrs.
	<i>(Students must take the following 12 SH of JOUR courses as program electives in addition to 6 SH of Program Electives.)</i>		
	JOUR360	Writing for Public Relations (3)	
	JOUR390	Writing Advertising I (3)	
	JOUR425	Public Relations Prog Design (3)	
	JOUR540	Public Relations Management (3)	
VI.	Free Electives		39 sem. hrs.
	<i>(Select one internship/field experience for appropriate program concentration – Journalism or Public Relations.)</i>		
	JOUR496	Internship/Field Exp option in JOUR (6-15) OR	
	JOUR496	Internship/Field Exp option in PR (6-15)	
		<b>TOTAL</b>	<b>120 sem. hrs.</b>

**BACHELOR OF ARTS – JOURNALISM AND PUBLIC  
RELATIONS: PUBLIC RELATIONS**  
(Suggested Eight-Semester Sequence)

**First Semester**

JOUR216	Beginning Reporting (3)		
ENGL101	College Writing Skills (3)		
MATH104	Finite Math (3)		
	Core (3) (Recommended JOUR214 Journalism and Society)		
	Core (3)		
	<b>TOTAL</b>	<b>15 sem. hrs.</b>	

**Second Semester**

JOUR226	Digital Media Design (3)		
JOUR200	Journalism Ethics (3)		
ENGL102	Writing and Research Skills (3)		
COMM107	Public Speaking (3)		
	Core (3)		
	<b>TOTAL</b>	<b>15 sem. hrs.</b>	

**Third Semester**

JOUR316	Intermediate Reporting (3)		
JOUR264	Intro to Mass Media (3)		
	Core (9)		
	<b>TOTAL</b>	<b>15 sem. hrs.</b>	

**Fourth Semester**

JOUR310	Broadcast Journalism (3)		
PR265	Intro to PR (3)		
PR360	Writing for Public Relations (3)		
PR390	Writing for Advertising (3)		
	Distribution (3)		
	<b>TOTAL</b>	<b>15 sem. hrs.</b>	

**Fifth Semester**

PR425	PR Program Design (3)		
JOUR406	Communication Law (3)		
	Distribution (3)		
	JOUR/PR Elective (3)		
	Elective (3)		
	<b>TOTAL</b>	<b>15 sem. hrs.</b>	

**Sixth Semester**

PR540	PR Management (3)		
	JOUR/PR Elective (3)		
	Elective (9)		
	<b>TOTAL</b>	<b>15 sem. hrs.</b>	

**Seventh Semester**

JOUR504	Advanced Electronic Journalism (3)		
	Electives (12)		
	<b>TOTAL</b>	<b>15 sem. hrs.</b>	

**Eighth Semester**

JOUR496	Internship (6-15) or Elective (3)		
	Electives (12)		
	<b>TOTAL</b>	<b>15 sem. hrs.</b>	

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## Music Department

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FACULTY: Bradley Amidon, Daniel Burdick, Gary Grant, Patrick Jones, Chuck Lute, Howard Lyon, Patrick Regan, Jean Snyder, Leanne Wistrom

**MISSION STATEMENT**

The Music Department's mission is to promote the art of music in the cultural, artistic, and intellectual life of the University and the surrounding communities.

**LEARNING OUTCOMES FOR ALL MUSIC MAJORS**

- Students will have the skills necessary to select, prepare and perform a variety of music appropriate for diverse ensembles and diverse audiences.
- Students will have the analytical and listening skills necessary to understand and evaluate a variety of music from different times and cultures.
- Students will be able to engage in musical research and analysis in order to provide musically relevant insights into a variety of music from different times and cultures.
- Students will have the written and aural communication skills necessary to effectively discuss their insights and understanding of music and the importance of music in society with people of varying degrees of musical experience and understanding.
- All graduates will have a commitment to self-improvement and lifelong learning.

- Students will have elementary arranging, compositional and improvisational skills.
- Students will be able to utilize current technology in a variety of musical activities.
- Students will be able to create an environment where all learners—regardless of age, race, sexual orientation, physical and learning disabilities, religion, or political views—feel welcome.

**ACCREDITATION**

The Music Department is accredited by the National Association of Schools of Music, and offers coursework leading to the Bachelor of Arts – Music or Bachelor of Arts – Music Education degrees. A minor in music is also available.

The Music Department sponsors student chapters of professional organizations such as the Music Educators National Conference and the American Choral Directors Association, as well as chapters of professional music fraternities such as Sigma Alpha Iota (women), Phi Mu Alpha Sinfonia (men), and Kappa Kappa Psi (band).

Prospective students are accepted into the department on the basis of an audition and interview pending final approval by the Office of Admissions. Several auditions are held each year and can be arranged by individual appointment.

Admission into the teacher education program is based on state requirements. Contact the School of Education for current requirements.

The core of required courses includes theory, performance and music history. Music education majors take courses in learning theory, music methodology, field experiences, school law and ethics, and student teaching. Participation in music ensembles is required of all music majors in each semester of full-time enrollment. Senior music majors must also complete a 1/2 solo recital before graduating.

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## Bachelor of Arts Degree

**Music**

Graduates of the Bachelor of Arts in Music should be able to do the following:

- Possess the knowledge, skills, concepts, and sensitivities essential to the professional life of a musician.
  - Have the ability to fulfill various professional responsibilities, must exhibit not only technical competence, but also broad knowledge of music and music literature, the ability to integrate musical knowledge and skills, sensitivity to musical styles, and an insight into the role of music in intellectual and cultural life.
- |     |                                |   |
|-----|--------------------------------|---|
| I.  | General Education Requirements | 42 sem. hrs.  |
| II. | Music                          | 42 sem. hrs.  |
|     | A. Music Core Courses          | 29-30 sem. hrs.                                     |
|     | MUSC124                        | Musicianship I (4)                                  |
|     | MUSC125                        | Musicianship II (4)                                 |
|     | MUSC224                        | Musicianship III (4)                                |
|     | MUSC225                        | Musicianship IV (4)                                 |
|     | MUSC320                        | Arranging (3)                                       |
|     | MUSC103                        | Intro. to Music (0) (included in General Education) |
|     | MUSC250                        | Music History I (3)                                 |
|     | MUSC251                        | Music History II (3)                                |

**Voice Majors**

MUSC223 Diction for Singers\*

**Non-Piano Majors**MUSC136 Piano Lab I (1) **and**MUSC137 Piano Lab II (1) **or****Piano Majors**MUSC305 Tech. of Accompanying (1) **and**

MUSC312 Advanced Keyboard Tech (1)

**Instrumentalists**MUSC328 Adv. Instrumental Conducting (2) **or****Vocalists**

MUSC327 Adv. Choral Conducting (2)

\*MUSC223 Diction for Singers is required for Voice Majors.

B. Applied Music<sup>2</sup> 7 sem. hrs.

MUSC130 Applied Music (1)

MUSC131 Applied Music (1)

MUSC230 Applied Music (1)

MUSC231 Applied Music (1)

MUSC330 Applied Music (1)

MUSC331 Applied Music (1)

MUSC430 Applied Music (1)

C. Ensembles<sup>3</sup> 4-5 sem. hrs.

III. Electives 37 sem. hrs.

TOTAL 120 sem. hrs.

1. Each student must enroll in an ensemble on his/her major instrument each semester he/she is enrolled as a full-time student.

**BACHELOR OF ARTS – MUSIC****(Suggested Eight-Semester Sequence)****First Semester**

MUSC124 Musicianship I (4)

MUSC136 Piano Lab I **or**

MUSC305 Tech of Accompany (1)

MUSC130 Applied Music (1)

Music Ensemble (1)

General Education Core (3)

Free Elective (6)

ENGL101 College Writing Skills (3)

MATH104 Finite Math (3) or higher

TOTAL 16 sem. hrs.

**Second Semester**

MUSC103 Intro. to Music/majors (3)

MUSC125 Musicianship II (4)

MUSC137 Piano Lab II **or**

MUSC312 Adv. Keyboard Tech. (1)

MUSC131 Applied Music (1)

Music Ensemble (1)

ENGL102 Specialized College Writing and

Research Skills (3)

CSCI104 or higher CSCI course (3) or Discipline-specific

Computer Competency Course

TOTAL 16 sem. hrs.

**Third Semester**

MUSC224 Musicianship III (4)

MUSC250 Music History I (3)

MUSC230 Applied Music (1)

Music Ensemble (1)

General Education Core (3)

General Education Core (3)

TOTAL 15 sem. hrs.

**Fourth Semester**

MUSC225

MUSC251

MUSC231

MUSC233

Musicianship IV (4)

Music History II (3)

Applied Music (1)

Diction for Singers (1)\*

Music Ensemble (1)

General Education Core (3)

General Education Core (3)

TOTAL 16 sem. hrs.

**Fifth Semester**

MUSC320

MUSC322

MUSC330

Arranging (3)

Basic Conducting (1)

Applied Music (1)

Music Ensemble (1)

General Education Core (3)

General Education Core (3)

Music Elective (3)

TOTAL 15 sem. hrs.

**Sixth Semester**

MUSC327

MUSC328

MUSC331

Adv. Choral Cond. (2) **or**

Adv. Inst. Cond. (2)

Applied Music (1)

Elective (3)

Elective (3)

Elective (3)

General Education Distribution (3)

TOTAL 17 sem. hrs.

**Seventh Semester**

MUSC430

Applied Music (1)

Elective (3)

Elective (3)

Elective (3)

Elective (3) (2\*)

General Education Distribution (3)

TOTAL 15\*-16 sem. hrs.

**Eighth Semester**

Elective (3)

Elective (3)

Elective (3)

Elective (3)

TOTAL 12 sem. hrs.

\*Vocal majors must take MUSC223 Diction for Singers (1 sem. hr.) within their first four semesters. They will then need a one semester hour elective in their seventh semester instead of two semester hours in their seventh semester.

**Bachelor of Arts****Music Education**

Graduates of the Bachelor of Arts in Music Education should have the following Attributes:

1. Possess the knowledge, skills, concepts, and sensitivities essential to the professional life of a musician.
2. Have the ability to fulfill various professional responsibilities, must exhibit not only technical competence, but also broad knowledge of music and music literature, the ability to integrate musical knowledge and skills, sensitivity to musical styles, and an insight into the role of music in intellectual and cultural life.

3. Personal commitment to the art of music, to teaching music as an element of civilization, and to encourage the artistic and intellectual development of students, plus the ability to fulfill these commitments as an independent professional.
4. The ability to lead students to an understanding of music as an art form, as a means of communication, and as a part of their intellectual and cultural heritage.
5. The capability to inspire others and to excite the imagination of students, engendering a respect for music and a desire for musical knowledge and experiences.
6. The ability to articulate logical rationales for music as a basic component of vernal education, and to present the goals and objectives of a music program effectively to parents, professionals colleagues, and administrators.
7. The ability to work productively within specific education systems, promote scheduling patterns that optimize music instruction, maintain positive relationships with individuals of various social and ethnic groups, and be empathetic with students and colleagues of differing backgrounds.
8. The ability to evaluate ideas, methods, and policies in the arts, the humanities, and in arts education for their impact on the musical and cultural development of students.
9. The ability and desire to remain current with developments in the art of music and in teaching, to make independent, in-depth evaluations of their relevance, and to use the results to improve musicianship and teaching skills.

I. General Education Requirements	42 sem. hrs.
II. Music	42 sem. hrs.
A. Music Core Courses	30 sem. hrs.
MUSC124	Musicianship I (4)
MUSC125	Musicianship II (4)
MUSC224	Musicianship III (4)
MUSC225	Musicianship IV (4)
MUSC320	Arranging (3)
MUSC103	Intro. to Music (0) (included in General Education)
MUSC250	Music History I (3)
MUSC251	Music History II (3)
MUSC322	Basic Conducting (1)
<u><b>Non-Piano Majors</b></u>	
MUSC136	Piano Lab I (1) <b>and</b>
MUSC137	Piano Lab II (1) <b>or</b>
<u><b>Piano Majors</b></u>	
MUSC305	Tech. of Accompanying (1) <b>and</b>
MUSC312	Advanced Keyboard Tech (1)
<u><b>Instrumentalists</b></u>	
MUSC328	Adv. Instrumental Conducting (2) <b>or</b>
<u><b>Vocalists</b></u>	
MUSC327	Adv. Choral Conducting (2)
B. Applied Music <sup>2</sup>	7 sem. hrs.
MUSC130	Applied Music (1)
MUSC131	Applied Music (1)
MUSC230	Applied Music (1)
MUSC231	Applied Music (1)
MUSC330	Applied Music (1)
MUSC331	Applied Music (1)
MUSC430	Applied Music (1)
	Ensembles <sup>3</sup>
	5 sem. hrs.

III. Music Education Courses	29 sem. hrs.
SPED210	Introduction to Exceptionalities (3)
SPED370	Adaptations/Accommodations (3)
MUED216	Methods in Elem. and General Music Teaching (0)
	(Included in General Education)
MUED217	Elem. Music Field Experience (1)
MUED418	Methods in Sec. Instrumental and Vocal Methods (3)
MUED419	Sec. Music Field Experience (1)
MUED495	Student Teaching (12)
<u><b>Non-Voice Majors</b></u>	
MUSC113	Class Voice I (1) <b>or</b>
<u><b>Voice Majors</b></u>	
MUSC223	Diction for Singers (1)
MUSC214	Woodwinds Class (2)
MUSC215	Strings I (1)
MUSC317	Brass Class (1)
MUSC318	Percussion Class (1)
IV. Free Electives	7 sem. hrs.
	<b>TOTAL</b> 120 sem. hrs.
1. Each student must enroll in an ensemble on his/her major instrument each semester he/she is enrolled as a full-time student, with the exception of the student teaching semester.	

**BACHELOR OF ARTS – MUSIC EDUCATION**  
**(Suggested Eight-Semester Sequence)**

<b>First Semester</b>	
ENGL101	College Writing Skills (3)
MATH110	Mathematical Reasoning (3) or higher
MUSC124	Musicianship I
MUSC136	Piano Lab I <b>or</b>
MUSC305	Tech. of Accompany (1)
MUSC130	Applied Music (1)
	Music Ensemble (1)
	General Education Core (PSYC101) (3)
	<b>TOTAL</b> 16 sem. hrs.
<b>Second Semester</b>	
ENGL102	Specialized College Writing and Research Skills (3)
MATH210	Mathematical Reasoning II (3)
MUSC103	Intro. to Music (majors) (3)
MUSC113	Class Voice <b>or</b>
MUSC223	Diction for Singers (1)
MUSC137	Piano Lab II <b>or</b>
MUSC312	Adv. Keyboard Tech. (1)
MUSC131	Applied Music (1)
	Music Ensemble (1)
	<b>TOTAL</b> 17 sem. hrs.
<b>Third Semester</b>	
MUSC224	Musicianship III (4)
MUSC250	Music History I (3)
MUSC230	Applied Music (1)
	Music Ensemble (1)
MUSC215	Strings Class I (1)
SPED210	Intro to Exceptionalities (3)
	General Education Core (English Lit) (3)
	<b>TOTAL</b> 16 sem. hrs.

**Fourth Semester**

SEDU271	Ed. in a Multicultural Society (3)		
MUED216	Methods in Elem. and Gen. Music (3)		
MUED217	Elem. Music Field Experience (1)		
MUSC225	Musicianship IV (4)		
MUSC251	Music History II (3)		
MUSC231	Applied Music (1)		
	Music Ensemble (1)		
	<b>TOTAL</b>	<b>16 sem. hrs.</b>	

**Fifth Semester**

MUSC214	Woodwinds Class (2)		
MUSC320	Arranging (3)		
MUSC322	Basic Conducting (1)		
MUSC330	Applied Music (1)		
SPED370	Adaptations/Accommodations (3)		
	Music Ensemble (1)		
	General Education Core (3)		
	General Education Distribution (3)*		
	<b>TOTAL</b>	<b>17 sem. hrs.</b>	

**Sixth Semester**

MUSC317	Brass Class (1)		
MUSC318	Percussion Class (1)		
MUSC327	Adv. Choral Conducting (2) <b>or</b>		
MUSC328	Adv. Instr. Conducting (2)		
MUSC331	Applied Music (1)		
	General Education Core (3)		
	General Education Distribution (3)		
	Elective (3)		
	<b>TOTAL</b>	<b>14 sem. hrs.</b>	

**Seventh Semester**

MUSC430	Applied Music (1)		
MUED418	Meth. in Sec. Inst. and Vocal Methods (3)		
MUED419	Sec. Music Field. Exp. (1)		
	General Education Distribution (3)		
	Elective (3)		
	<b>TOTAL</b>	<b>12 sem. hrs.</b>	

**Eighth Semester**

MUED495	Student Teaching (12)		
	<b>TOTAL</b>	<b>12 sem. hrs.</b>	

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## Political Science and Criminal Justice Department

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FACULTY: Joseph P. Conti, Kevin E. Courtright, James D. Fisher, Gerry Gendlin, Bridget M. Jeffery, Rhonda Matthews, Elvage G. Murphy, George E. Richards II, Delbert L. Rounds, Deborah T. Vegh, Theodore Yeshion

The Department of Political Science and Criminal Justice offers the following degree programs: BA in Political Science; BA in Political Science with a concentration in Legal Studies; BA in Criminal Justice; and AA in Criminal Justice. The Department also houses the University's pre-law advising program.

Prospective students are encouraged to visit the Department of Political Science and Criminal Justice web site for more information on all facets of their programs, including extracurricular activities, internship opportunities, job and graduate school placement, and faculty profiles.

**THE POLITICAL SCIENCE PROGRAM**

Political Science students at Edinboro University develop a broad and sophisticated understanding of politics, including knowledge of American politics, international relations, comparative politics, and political theory. Students develop skills in critical thinking, research, and oral and written communication. In class and through an optional internship experience, students learn to use their knowledge and developed skills to address real life problems in politics and policy and are prepared to serve in roles of responsibility in the community. Political Science students are prepared to work in almost any field, but are especially suited for careers in government, political advocacy, non-governmental organizations, and law.

Looking at the curriculum, political science majors are required to take courses that expose them to the major fields of contemporary political science: comparative politics, American politics, international relations, political theory, and research methodology. Students further take several political science elective courses tailored to their specific interests and in consultation with their advisor. Students are also required to develop skills in statistical analysis and in a foreign language. Finally, students are given the option of earning academic credit toward their major by participating in a politics- or law-related internship.

**THE LEGAL STUDIES CONCENTRATION WITHIN POLITICAL SCIENCE AND PRE-LAW ADVISING**

Edinboro students who are interested in the law and how legal systems operate can pursue their interests in two ways. Students who are also interested in politics can pursue a bachelor's degree in political science with a concentration in legal studies. Alternatively, students who want to attend law school but are not as interested in politics can pursue any major they choose while taking pre-law courses and participating in pre-law program-related activities on campus.

Students majoring in Political Science with a concentration in Legal Studies develop a sophisticated understanding of politics, law, and legal systems, as well as an understanding of related fields of knowledge, such as history, ethics, and economics. Students develop skills in critical thinking, research, legal analysis, and oral and written communication. In class and through an optional internship experience, students learn to use their knowledge and developed skills to address real life problems in politics, policy, and law, and are prepared to serve in roles of responsibility in the community. Legal Studies is an ideal major for students who want to practice law or work in any law-related field.

The more general pre-law advising program at Edinboro University helps students of any major develop the skills necessary for success in the profession of law, consistent with the recommendations of the American Bar Association. Countless Edinboro alumni are practicing attorneys, judges, and academics. A pre-law student who does not attend law school still receives training, advice, and experiences that will serve that student well in his or her chosen career.

**THE CRIMINAL JUSTICE PROGRAM**

The criminal justice system is an integral part of any society and offers persons with good character and proper academic preparation challenging and rewarding career opportunities. Proper training for the field requires analysis of the criminal justice system from multiple disciplinary perspectives (political, sociological, legal, psychological, historical, ethical, etc.). Students also benefit from practical training in techniques for preventing crime, investigating crime, and dealing with persons in the corrections system. Direct exposure to the field through a substantive internship rounds out a student's training and prepares the student for a transition to a successful career in criminal justice. Students at Edinboro may earn a Bachelor of Arts (B.A.) degree and/or an Associate of Arts (A.A.) degree in Criminal Justice.

Strengths of the criminal justice program at Edinboro include the following:

- Faculty members who possess wide-ranging academic expertise as well as significant real-world experience;
- A broad range of challenging courses that expose students to all facets of the criminal justice system and allow for in-depth training in a student’s particular area of interest;
- An internship program with a long and successful record of placing students with a wide range of agencies;
- Active student organizations and exciting extracurricular activities for criminal justice students.

Edinboro students who graduate with a B.A. or A.A. in Criminal Justice will

- Possess the ability to read and process information analytically, and think critically;
- Possess the ability to effectively communicate orally and in writing;
- Possess a competent understanding of the tools, theories and practices of criminology and criminal justice;
- Apply the tools, theories and practices of criminology, and criminal justice to formulate and devise public policy responses to crime;
- Recognize and understand the professional, social and ethical responsibilities associated with criminal justice practitioners;
- Transition into entry-level career opportunities in any area of public service, or transition into and successfully complete a rigorous graduate or professional school program.

## Bachelor of Arts Degree

### Political Science

Students must earn a C or better in all courses that count toward the political science major.

- |   |  |
|---|--|
| I. General Education Requirements   | 42 sem. hrs.                             |
| Students must take MATH 260 Elements of Statistics (3) for their Distribution 3 requirement.  |  |
| II. Political Science Foundations   | 21sem. hrs.                              |
| POL1100   | Introduction to Politics (3)             |
| POL1101   | Introduction to American Politics (3)    |
| POL1102   | Introduction to Comparative Politics (3) |
| POL1103   | Introduction to Global Politics (3)      |
| POL1300   | Methods of Political Analysis (3)        |
| POL1370   | Political Thought I OR                   |
| POL1372   | Political Thought II (3)                 |
| POL1507   | Seminar in Political Science             |
| III. Political Science Electives  | 21 sem. hrs.                             |
| Political science electives include any POLI course numbered 301 or higher, excluding POLI395 (which may be taken for “free electives”) |  |
| IV. Foreign Language Requirement  | 6 sem. hrs.                              |
| Six credits of foreign language courses of the same prefix; course numbers must be 101, 102, 201, or 202                                |  |
| V. Free Electives   | 30 sem. hrs.                             |
| <b>TOTAL</b>  | <b>120 sem. hrs.</b>                     |

### BACHELOR OF ARTS – POLITICAL SCIENCE (Suggested Eight-Semester Sequence)

#### First Semester

POL1100	Introduction to Politics (3)
POL1103	Introduction to Global Politics (3)
ENGL101	College Writing Skills (3)
MATH104	Finite Mathematics (3) or higher Core (3)
<b>TOTAL</b>	<b>15 sem. hrs.</b>

#### Second Semester

POL1101	Introduction to American Politics (3)
POL1102	Introduction to Comparative Politics (3)
ENGL102	Specialized College Writing and Research Skills (3)
CSCI104	Essential Computing I (3) or Discipline-specific Computer Competency Course Core (3)
<b>TOTAL</b>	<b>15 sem. hrs.</b>

#### Third Semester

POL1370	Political Thought I (3) OR
POL1372	Political Thought II (3)
MATH260	Elements of Statistics (3)
	Foreign Language First Course (3)
	Core (3)
	Core (3)
<b>TOTAL</b>	<b>15 sem. hrs.</b>

#### Fourth Semester

POL1300	Methods of Political Analysis (3)
POL1301+	Political Science Elective (3)
	Foreign Language Second Course (3)
	Core (3)
	Core (3)
<b>TOTAL</b>	<b>15 sem. hrs.</b>

#### Fifth Semester

POL1301+	Political Science Elective (3)
POL1301+	Political Science Elective (3)
	Core (3)
	Distribution/Free Elective (3)
	Distribution/Free Elective (3)
<b>TOTAL</b>	<b>15 sem. hrs.</b>

#### Sixth Semester

POL1301+	Political Science Elective (3)
POL1301+	Political Science Elective (3)
	Distribution/Free Elective (3)
	Distribution/Free Elective (3)
	Distribution/Free Elective (3)
<b>TOTAL</b>	<b>15 sem. hrs.</b>

#### Seventh Semester

POL1301+	Political Science Elective (3)
POL1301+	Political Science Elective (3)
	Distribution/Free Elective (3)
	Distribution/Free Elective (3)
	Distribution/Free Elective (3)
<b>TOTAL</b>	<b>15 sem. hrs.</b>

#### Eighth Semester

POL1507	Seminar in Political Science (3)
	Distribution/Free Elective (3)
	Distribution/Free Elective (3)
	Distribution/Free Elective (3)
	Distribution/Free Elective (3)
<b>TOTAL</b>	<b>15 sem. hrs.</b>
<b>TOTAL</b>	<b>120 sem. hrs.</b>



## Bachelor of Arts Degree

### Political Science- Concentration in Legal Studies

Students must earn a C or better in all courses that count toward the legal studies concentration.

I. General Education Requirements	42 sem. hrs.
Students must take the following courses as part of their general education requirements:	
HIST101	World Civilizations I (3) (Core 2)
HIST 261	History of U.S. I (3) (Core 3)
PSYC101	Intro to Psychology (3) (Core 4)
PHIL240	Introduction to Moral Issues (3) (Core 6)
ECON225	Macroeconomics(3) (Distribution 2)
MATH260	Elements of Statistics (3) (Distribution 3)
II. Political Science Foundations	21 sem. hrs.
POLI100	Introduction to Politics (3)
POLI101	Intro to American Politics (3)
POLI102	Introduction to Comparative Politics (3)
POLI103	Introduction to Global Politics (3)
POLI300	Methods of Political Analysis (3)
POLI370	Political Thought I (3) OR
POLI372	Political Thought II (3)
POLI507	Seminar in Political Science
III. Legal Studies Concentration	12 sem. hrs.
Required:	
POLI343	Law and Legal Systems (3)
Take nine (9) semester hours of the following courses:	
POLI463	Civil Liberties (3)
POLI465	Constitutional Law (3)
POLI469	Criminal Procedure
POLI550	International Law
POLI560	Jurisprudence
IV. Political Science Electives and/or Field Experience	9sem. hrs.
Political science electives include any POLI course numbered 301 or higher, excluding POLI395 (which may be taken for “free electives”)	
V. Foreign Language Requirement	6 sem. hrs.
Six credits of foreign language courses of the same prefix; course numbers must be 101, 102, 201, or 202.	
VI. Free Electives	30 sem. hrs.
TOTAL	120 sem. hrs.

### BACHELOR OF ARTS – POLITICAL SCIENCE-LEGAL STUDIES CONCENTRATION (Suggested Eight-Semester Sequence)

#### First Semester

POLI100	Introduction to Politics (3)	
POLI103	Introduction to Global Politics (3)	
ENGL101	College Writing Skills (3)	
MATH104	Finite Mathematics (3) or higher Core (3)	
TOTAL		15 sem. hrs.

#### Second Semester

POLI101	Introduction to American Politics (3)	
POLI102	Introduction to Comparative Politics (3)	
ENGL102	Specialized College Writing and Research Skills (3)	
CSCI104	Essential Computing I (3) or Discipline- specific Computer Competency Course Core (3)	
TOTAL		15 sem. hrs.

#### Third Semester

POLI370	Political Thought I (3) OR	
POLI372	Political Thought II (3)	
MATH260	Elements of Statistics (3)	
ECON225	Macroeconomics (3)	
	Foreign Language First Course (3)	
	Core (3)	
TOTAL		15 sem. hrs.

#### Fourth Semester

POLI300	Methods of Political Analysis (3)	
POLI343	Law and Legal Systems (3)	
	Foreign Language Second Course (3)	
	Core (3)	
	Core (3)	
TOTAL		15 sem. hrs.

#### Fifth Semester

POLI301+	Legal Studies Elective (3)	
POLI301+	Political Science Elective (3)	
	Core (3)	
	Core (3)	
	Distribution (3)	
TOTAL		15 sem. hrs.

#### Sixth Semester

POLI301+	Legal Studies Elective (3)	
POLI301+	Political Science Elective (3)	
	Free Elective (3)	
	Free Elective (3)	
	Free Elective (3)	
TOTAL		15 sem. hrs.

#### Seventh Semester

POLI301+	Legal Studies Elective (3)	
POLI301+	Political Science Elective (3)	
	Free Elective (3)	
	Free Elective (3)	
	Free Elective (3)	
TOTAL		15 sem. hrs.

#### Eighth Semester

POLI507	Seminar in Political Science (3)	
	Free Elective (3)	
	Free Elective (3)	
	Free Elective (3)	
	Free Elective (3)	
TOTAL		15 sem. hrs.
TOTAL		120 sem. hrs.

## Preparing for law school

Edinboro University provides students of any major with excellent resources for preparing for graduate-level education in law and, ultimately, the practice of law. Pre-law students at Edinboro can pursue their interest in law in two different ways. Students who are interested in politics can pursue a bachelor's degree in political science with a concentration in legal studies. Alternatively, students who want to attend law school but are not as interested in politics can pursue any major they choose while taking pre-law courses and participating in pre-law program-related activities on campus.

Edinboro's pre-law advising program, following the recommendations of the Law School Admission Council (LSAC) and the American Bar Association (ABA), is guided by the following principles:

1. An undergraduate education should serve as a preparation for law school, not a substitute for it. Students are best prepared for law school when they take some, but not too many, pre-law courses,

instead focusing the bulk of their coursework on a wide range of non-law courses. A student's non-law courses (in history, philosophy, politics, economics, psychology, and other subjects) should give a student a broad base of knowledge and superior analytical and communications skills.

2. Students interested in law should be prepared both for law and for an alternative career, in case they decide that the practice of law is not for them and/or they decide to work for a while before attending law school.

As a result, Edinboro University does not have a pre-law major or degree. Instead, it offers a B.A. in political science with a concentration in legal studies, and a series of pre-law courses and law-related activities for students of all majors. In this way, students can pursue their interest in law without focusing on it to the exclusion of other worthy pursuits.

#### Recommended courses for all pre-law students

Edinboro University offers several law-related courses. The following constitute the 'core' pre-law courses that all students seriously considering law school are encouraged to take:

POLI343	Law and Legal Systems
POLI463	Civil Liberties
POLI469	Criminal Procedure and Evidence
BUAD260	Business Law I

The following is a partial list of law-related courses that are also offered on a regular basis. Pre-law students should take some but not too many law-related courses; a student's undergraduate education is a preparation for law school, not law school itself:

POLI465	Constitutional Law
POLI550	International Law
POLI560	Jurisprudence
BUAD360	Business Law II
BAUD410	Legal Environment of International Business
PSYC355	Psychology and Law
CRIM265	Introduction to Courts, Criminal Law, and Criminal Procedure
CRIM462	Pennsylvania Crimes Code

Finally, the following courses are particularly effective in developing skills and knowledge that are important for law students and lawyers. Students are encouraged to take as many of these courses as possible, regardless of major:

POLI100	Introduction to Politics
POLI101	Intro to American Politics
POLI102	Introduction to Comparative Politics
POLI103	Introduction to Global Politics
POLI370	Political Thought I
POLI372	Political Thought II
HIST101	World Civilizations I
HIST102	World Civilizations II
HIST261	History of U.S. I
HIST262	History of U.S. II
ECON220	Microeconomics
ECON225	Macroeconomics
MATH260	Elements of Statistics
PSYC101	Introduction to Psychology
ANTH180	Introduction to Anthropology
PHIL200	Introduction to Philosophy and Values
PHIL240	Introduction to Contemporary Moral Issues
SOC100	Introduction to Sociology
A course in research methods (any discipline)	

## Bachelor of Arts Degree

### Criminal Justice

I.	General Education Requirements	42 sem. hrs.
II.	Criminal Justice Required Courses	24 sem. hrs.
	POLI101	Introduction to American Politics (3) (Counts as Core 3 course)
	SOC100	Principles of Sociology (3) (Counts as Core 5 course)
	MATH 260	Elements of Statistics (3) (Counts as Distribution 3 course)
	CRIM100	Introduction to Criminal Justice (3)
	CRIM210	Introduction to Corrections (3)
	CRIM230	Introduction to Policing (3)
	CRIM265	Introduction to Courts, Criminal Law and Procedure (3)
	SOC232	Introduction to Criminology (3)
	CRIM295	Criminal Justice Ethics (3)
	CRIM475	Research Methods in Criminal Justice (3)
	CRIM500	Seminar in Criminal Justice (3)
III.	Criminal Justice Electives	18sem. hrs.
	Criminal Justice electives include the following:	
A.	Any CRIM course of 300+ level (for a list of these courses, please see course descriptions in catalogue)	
B.	CRIM 395, Internship in Criminal Justice, up to 12 semester hours	
C.	Course credits transferred as CRIM199, CRIM299, up to nine semester hours	
D..	Non-CRIM courses approved for elective credit, which include the following courses:	
	1. POLI306	Public Administration I
	2. POLI307	Public Administration II
	3. POLI343	Law and Legal Systems
	4. POLI349	National Security
	5. POLI350	Terrorism and Political Violence
	6. POLI351	American Foreign Policy
	7. POLI463	Civil Liberties
	8. POLI465	Constitutional Law
	9. POLI490	Independent Study
	10. POLI550	Jurisprudence
	11. POLI567	Politics of Crime
	12. HIST333	History of Terrorism
	13. HIST372	History of American Violence
	14. HIST379	U.S. Police History
	15. PSYC350	Drugs and Human Behavior
	16. SOC300	Victimology
	17. SOC335	Juvenile Delinquency
	18. SOC320	Sociology of Deviance
	19. SOC432	Advanced Criminology
IV.	Free Electives	36 sem. hrs.
	TOTAL	120 sem. hrs.

## BACHELOR OF ARTS – CRIMINAL JUSTICE (Suggested Four-Year Sequence)

### First Year

POLI101	Introduction to American Politics (3)
CRIM100	Introduction to Criminal Justice (3)
SOC100	Principles of Sociology (3)
MATH104	Finite Mathematics (3) or higher
ENGL101	College Writing Skills (3)
ENGL102	Writing/Research Skills (3)
CSCI104	Essential Computing I (3) or Discipline-specific Computer Competency Course
	Core (3)
	Core (3)
	Core (3)

TOTAL 30 sem. hrs.

### Second Year

CRIM210	Introduction to Corrections (3)
CRIM230	Introduction to Policing (3)
CRIM265	Introduction to Courts, Criminal Law and Procedure (3)
SOC 232	Introduction to Criminology
MATH260	Elements of Statistics
	Criminal Justice Elective (3)
	Criminal Justice Elective (3)
	Core (3)
	Core (3)
	Distribution (3)

TOTAL 30 sem. hrs.

### Third Year

CRIM295	Criminal Justice Ethics (3)
CRIM475	Research Methods in Criminal Justice (3)
	Criminal Justice Elective (3)
	Criminal Justice Elective (3)
	Criminal Justice Elective (3)
	Distribution (3)
	Free Elective (3)
	Free Elective (3)
	Free Elective (3)
	Free Elective (3)

TOTAL 30 sem. hrs.

### Fourth Year

CRIM500	Seminar in Criminal Justice (3)
	Free Elective (3)
	Free Elective (3)
	Free Elective (3)
	Free Elective (3)
	Free Elective (3)
	Free Elective (3)
	Free Elective (3)
	Free Elective (3)
	Free Elective (3)
	TOTAL 30 sem. hrs.
	TOTAL 120 sem. hrs.

## Associate of Arts Degree

### Criminal Justice

The Associate of Arts degree in Criminal Justice is a 60-credit, two-year program that qualifies students to work in all facets of the criminal justice field. Students receive comprehensive exposure to the various components of the criminal justice system. Students also receive training in specific criminal justice topics. Individually and collectively, criminal justice courses at Edinboro University increase a student's knowledge, analytical and communication skills, and marketability.

What is the difference between the two-year Associate's degree program and the four-year Bachelor's degree program in Criminal Justice? Compared to the Bachelor of Arts major in Criminal Justice, the Associate's degree requires fewer general education courses, fewer Free Electives, and fewer courses in the major. The difference, therefore, is one of depth of knowledge and training. Persons with an interest in criminal justice can contact the Department of Political Science and Criminal Justice to talk to a professor about the comparative benefits of an Associate's versus Bachelor's degree from Edinboro University.

Many students who earn their Associate's degree in Criminal Justice decide to pursue the Bachelor's degree as well, either immediately or after working in the field for a time. The Associate's degree program is designed to allow for an easy transition into the Bachelor's degree program: All of a student's coursework for the Associate's degree will count toward the Bachelor's degree. Furthermore, the Department of Political Science and Criminal Justice at Edinboro University offers many of its Criminal Justice course online; this makes it easier for Associate's degree students to complete the Bachelor's degree requirements while continuing to work in the field.

Students must earn a C or better in all courses that count toward the Criminal Justice major, including POLI 101 and SOC 100.

I.	General Education Requirements	30 sem. hrs.
	ENGL101	College Writing Skills 3 sem. hrs.
	ENGL102	Writing and Research Skills 3 sem. hrs.
	MATH104	Finite Mathematics or higher 3 sem. hrs.
	CSCI104	Essential Computing I or Discipline-specific Computer Competency Course 3 sem. hrs.
	POLI101	Intro to American Politics (Core 3 requirement) 3 sem. hrs.
	SOC100	Principles of Sociology (Core 5 requirement) 3 sem. hrs.
		One course from four of the five remaining Core categories (Artistic Expression, World Civilizations, Human Behavior, Ethics, Natural Science) 12 sem. hrs.
II.	Criminal Justice Required Courses	18 sem. hrs.
	CRIM100	Introduction to Criminal Justice (3)
	CRIM210	Introduction to Corrections (3)
	CRIM230	Introduction to Policing (3)
	CRIM265	Introduction to Courts, Criminal Law and Procedure (3)
	CRIM295	Criminal Justice Ethics (3)
	SOC232	Introduction to Criminology (3)
III.	Criminal Justice Electives	6 sem. hrs.
		Criminal Justice electives include any CRIM-listed course
IV.	Free Electives	6 sem. hrs.
	TOTAL	60 sem. hrs.

## ASSOCIATE OF ARTS – CRIMINAL JUSTICE (Suggested Four-Semester Sequence)

### First Semester

ENGL101	College Writing Skills (3)
POLI101	Intro to American Politics (3)
SOC100	Principles of Sociology (3)
CRIM100	Intro to Criminal Justice
MATH 104	Finite Mathematics (3) or higher
	TOTAL 15 sem. hrs.

### Second Semester

CRIM210	Introduction to Corrections (3)
CRIM230	Introduction to Policing (3)
ENGL102	Writing/Research Skills (3)
CSCI104	Essential Computing (3) or Discipline-specific Computer Competency Course Core (3)
	TOTAL 15 sem. hrs.

### Third Semester

SOC232	Introduction to Criminology (3)
CRIM 265	Introduction to Courts, Criminal Law and Procedure (3)
CRIM295	Criminal Justice Ethics (3) Core (3) Core (3)
	TOTAL 15 sem. hrs.

### Fourth Semester

	Criminal Justice Elective (3)
	Criminal Justice Elective (3)
	Core (3)
	Free Elective (3)
	Free Elective (3)
	TOTAL 15 sem. hrs.
	TOTAL 60 sem. hrs.

## Sociology Department

FACULTY: Ivan Chompalov, Patricia Neff Claster, Samuel Claster, Irene Fiala, Lee Williams

The Bachelor of Arts degree in Sociology is structured to give the student a background in theory, methodology, and program content with an emphasis on applied sociology. In addition to preparing the student for possible graduate education the general goal of the program is to provide the student with the basic applied sociological skills so that he/she may assume a variety of professional positions and become a contributing member of society. Applied sociological skills, such as report writing, research design, data collection and analysis, problem-solving, and computer knowledge, are highly sought after in the professional world.

Majors in the department's degree programs have had considerable success in being admitted to graduate schools. Recent graduates have been admitted to the University of Chicago, Northwestern, Ohio State, Penn State, the University of Pittsburgh, Kent State, and Case-Western Reserve University.

## Associate of Arts Degree

### Human Services-Social Services

Many health and human service agencies desire individuals who have less than a baccalaureate degree but yet are sophisticated enough to be effective workers. There are several areas these two-year trained individuals could serve. This program is concerned with preparation of individuals as mental health workers/psychiatric aides, social service workers, workers for developmentally disabled, and workers with the elderly. The availability of trained paraprofessionals in these areas could make such services available to the public more efficiently and effectively. The goal of the program is to educate, in two years, a generalist worker who could move into a wide range of mental health and/or human services fields. The program's basic premise is that there is a common core of attitudes, skills, and knowledge that apply to a variety of settings. Individuals equipped with these competencies can make effective contributions to agencies involved in mental health, education, welfare, retardation, corrections and other areas.

Students may pursue this degree in either of two tracks: Developmental Disabilities (housed in the Department of Special Education and School Psychology), or Social Services (housed in the Department of Sociology). The specific courses required in the categories under the Major (items II. A, B and C) are listed below.

I.	General Education	30 sem. hrs.
	ENGL101	College Writing Skills 3 sem. hrs.
	ENGL102	Writing and Research Skills 3 sem. hrs.
	MATH104	Finite Mathematics or higher 3 sem. hrs.
	CSCI104	Essential Computing I or Discipline-specific Computer Competency Course 3 sem. hrs.
		One approved course from six of the seven following Core categories (Artistic Expression, World Civilizations, American Civilizations, Human Behavior, Cultural Diversity and Social Pluralism, Ethics, Natural Science) 18 sem. hrs.
II.	Human Service Area	24 sem. hrs.
	A.	Nature and Need of Service 9 sem. hrs.
		Choose three of the following courses
	SOWK100	Introduction to Social Work (3)
	SOC100	Principles of Sociology (3)
	SOC207	Contemporary Social Problems (3)
	SOC390	Sociology of the Life Cycle (3)
	B.	Behaviors, Treatments and Strategies 9 sem. hrs.
		Choose three of the following courses
	SOWK115	Human Diversity (3)
	SOWK250	Introduction to Social Welfare Policy (3)
	SOC326	Society and the Individual (3)
	SOC347	Work and Society
	SOC364	Race and Ethnic Relations (3)
	C.	Electives in Field 6 sem. hrs.
		Choose two of the following courses
	SOWK375	Medical Social Work (3)
	SOWK380	Child Welfare (3)
	SOWK390	Aging and Human Services (3)
	SOC335	Juvenile Delinquency (3)
	SOC340	Soc. of Marriage and Family (3)
III.	Free Electives	6 sem. hrs.
		TOTAL 60 sem. hrs.

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**ASSOCIATE OF ARTS – HUMAN SERVICES-SOCIAL SERVICES**
**(Suggested Four-Semester Sequence)****First Semester**

ENGL101	College Writing Skills (3) Nature and Needs of Service (3) Core (3) Core (3) Free Elective (3)	TOTAL	15 sem. hrs.
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**Second Semester**

	Nature and Needs of Service (3) Behaviors, Treatments and Strategies (3) Core (3) Core (3) Distribution (3)	TOTAL	15 sem. hrs.
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**Third Semester**

	Nature and Needs of Service (3) Elective in Field (3) Core (3) Core (3) Core (3)	TOTAL	15 sem. hrs.
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**Fourth Semester**

	Behaviors, Treatment and Strategies (3) Behaviors, Treatment and Strategies (3) Free Elective (3) Distribution (3) Elective in Field (3)	TOTAL	15 sem. hrs.
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**Bachelor of Arts Degree****Sociology**

The sociology major at Edinboro University is a comprehensive program that develops skills such as research design, data collection and analysis, report writing, survey methods, interviewing techniques, group facilitation, strategic planning, policy analysis, community organizing, program evaluation, and ethics in research and social service practice. Above all, with an emphasis on diversity and social justice, the program prepares students to transcend the boundaries of their formal education and engage the challenges of 21<sup>st</sup> century employment and public life.

Students who major in Sociology will:

- Demonstrate understanding of basic sociological concepts as well as particular substantive areas of inquiry at micro, meso, and macro levels of analysis and practice.
- Analyze and articulate the diversity of social experience using a sociological perspective, especially as they relate to race, ethnicity, social class, gender, age, sexual orientation, disability, religion, and nationality.
- Articulate various theoretical perspectives in sociology as well as apply them to contemporary societal problems.
- Implement multiple methodological approaches to social inquiry, utilize data to solve social problems and demonstrate various professional competencies and skills.
- Engage in practical and applied experiences in order to integrate academic studies with occupational realities and professional opportunities.

I. General Education Requirements	42 sem. hrs.
Complete the general education requirements, including one chosen from the following: PHIL200 or PHIL240.	
II. Specialization in Sociology	42 sem. hrs.
LOWER-DIVISION MAJOR REQUIREMENTS	
SOC100	Principles of Sociology (3)
SOC250	Introduction to Sociological Research Methods (3)
SOC260	Intro. to Sociological Theory (3)
One course chosen from the following:	
PSYC225	Psychological Statistics (3)
SOC333	Methods of Policy Evaluation (3)
UPPER-DIVISION MAJOR REQUIREMENTS	
SOC499	Inequality, Power, and Social Change (3)
Two courses chosen from the following:	
SOC325	Sociology of Gender (3)
SOC347	Work and Society (3)
SOC364	Race and Ethnicity (3)
One course chosen from the following:	
SOC440	Applied Qualitative Methods (3)
SOC450	Applied Quantitative Methods (3)
Plus any six 300 level or higher Sociology courses that are not already included in the program.	
LOWER-DIVISION LANGUAGE OR CULTURE REQUIREMENT	
One chosen from the following: FREN100, FREN101, GERM100, GERM101, SPAN100, SPAN101 (Core 5)	
III. Free Electives	36 sem. hrs.
The number of unrestricted elective credits needed will vary, depending on the number of credits that overlap between the general education requirements and the major requirements, but students will need to earn enough college-level credits to reach a total of 120 semester credits.	
	TOTAL 120 sem. hrs.

\*During the sophomore year, each Sociology major shall meet with their advisor and develop a plan which prescribes a course of studies around a particular theme. This theme will include the courses required for the major as well as a specialized concentration within sociology, and will also take into consideration other course offerings which relate to the student's future plans. Some of these concentrations might include: family studies, organization theory and practice, advanced research methods and techniques, hospital administration and/or research, public opinion surveying, gerontology studies, computer applications, criminal justice administration, etc. This plan will be approved by the student, and his/her advisor.

Majors are also strongly encouraged to enroll in the Sociology internship experience. Many recent graduates feel that their internship experience was extremely important in obtaining a professional position.

Our Sociology majors have successfully secured jobs in a wide range of employment areas. Just to mention a few, such employment included jobs in government, retail trade, the criminal justice system, hospital administration, public relations and community based research firms.

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**BACHELOR OF ARTS – SOCIOLOGY**  
**(Suggested Eight-Semester Sequence)**
**First Semester**

ENGL101	College Writing Skills (3)		
MATH104	Finite Mathematics (3) or higher		
SOC100	Principles of Sociology (3)		
	Core (3)		
	Core (3)		
		TOTAL	15 sem. hrs.

**Second Semester**

ENGL102	Specialized College Writing/Research Skills (3)		
CSCI104	Essential Computing I (3)		
SOC207	Sociology Elective (3)		
	Any Foreign Language or Culture Course (3)		
	Core (3)		
		TOTAL	15 sem. hrs.

**Third Semester**

SOC250	Introduction to Sociological Research Methods (3)		
SOC260	Introduction to Sociological Theory (3)		
	Sociology Elective (3)		
PHIL200	Introduction to Philosophy OR		
PHIL240	Introduction to Contemporary Moral Issues (3)		
	Core (3)		
		TOTAL	15 sem. hrs.

**Fourth Semester**

SOC333	Methods of Policy Evaluation (3) OR		
PSYC225	Psychological Statistics (3)		
	Core (3)		
	Distribution (3)		
	Sociology Elective (3)		
	Free Elective (3)		
		TOTAL	15 sem. hrs.

**Fifth Semester**

SOC450	Advanced Quantitative Research Methods (3) OR		
SOC440	Applied Qualitative Research Methods (3)		
SOC325	Sociology of Gender (3) OR		
SOC347	Work and Society (3) OR		
SOC364	Race and Ethnic Relations (3)		
	Distribution (3)		
	Free Elective (3)		
	Free Elective (3)		
		TOTAL	15 sem. hrs.

**Sixth Semester**

SOC325	Sociology of Gender (3) OR		
SOC347	Work and Society (3) OR		
SOC364	Race and Ethnicity (3)		
	Sociology Elective (3)		
	Distribution (3)		
	Free Elective (3)		
	Free Elective (3)		
		TOTAL	15 sem. hrs.

**Seventh Semester**

SOC499	Inequality, Power, and Social Change (3)		
	Sociology Elective (3)		
	Sociology Elective (3)		
	Free Elective (3)		
	Free Elective (3)		
		TOTAL	15 sem. hrs.

**Eighth Semester**

SOC395	Sociology Field Studies (15)		
		TOTAL	15 sem. hrs.



# College of Science and Health Professions

## Biology and Health Services Department

FACULTY: John Ashley, Matthew Foradori, Martin G. Fox, David E. Fulford, Dale M. Hunter, Mark S. Kosco, Peter V. Lindeman, William J. Mackay, Kiran P. Misra, Martin J. Mitchell, Cynthia E. Rebar, Ulf M. Sorhannus, Craig W. Steele, Nina Thumser

The Biology and Health Services Department offers the following undergraduate programs: Bachelor of Arts in Biology degree; Bachelor of Science degrees in Biology, Environmental Science-Biology, Medical Technology, Nuclear Medical Technology, and a Bachelor of Science in Education degree in Biology (Please refer to the Middle and Secondary Education Department section for information regarding this program). The department also offers a minor in Biology.

The Biology and Health Services Department also offers General Education courses for non-biology majors, including BIOL100 Introduction to Biology, BIOL101 Human Biology, BIOL102 Environmental Biology, BIOL304 Biology of Aging, BIOL104 Introduction to Human Genetics, and BIOL307 History of Biology.

The Biology and Health Services Department offers ecology courses in conjunction with the University of Pittsburgh at the Pymatuning Laboratory of Ecology where both undergraduate and graduate study may be undertaken during the summer. For details see our Web site: "Links to Field Stations."

## Bachelor of Arts Degree

### Biology

This curriculum is intended to provide the student with a firm, broad basis of comprehension in the biological sciences and related scientific disciplines; however, it has the flexibility to allow students to easily double major or minor in another field. Graduates may find entry level employment in scientific research, education centers and sales.

Graduates of the Bachelor of Arts in Biology will be able to:

- Acquire the content knowledge of biology through its fundamental theories and terminology.
- Apply the skills to generate, synthesize, and analyze data using the scientific method.
- Possess the written and oral skills needed to communicate effectively with other biologists and with the general public.
- Develop expertise in field and laboratory equipment and techniques; and the ability to work collaboratively.
- Ability to recognize social and ethical issues as they relate to biological issues.

- I. General Education Requirements 44 or 45 sem. hrs.  
MATH260, not MATH104, fulfills the math skills requirement; PHYS201 fulfills Core 7; and CHEM301 fulfills Distribution 3 for this degree program.
- II. Required Biology Courses 24 sem. hrs.
- |         |                            |
|---------|----------------------------|
| BIOL150 | Principles of Biology (4)  |
| BIOL230 | Botany (4)                 |
| BIOL240 | Zoology (4)                |
| BIOL300 | Genetics (4) or            |
| BIOL305 | Cell/Molecular Biology (4) |

BIOL320	Plant Physiology (4) or
BIOL340	Animal Physiology (4)
BIOL400	Ecology (4)

- III. Biology Electives 6 sem. hrs.  
To be selected from the following: BIOL300, BIOL302, BIOL305, BIOL308, BIOL309, BIOL314, BIOL courses numbered 318 or above (limit 4 sh max for 395 and 490), and PYMA courses.\*
- IV. Required Supporting Courses 12sem. hrs.
- |         |  |
|---------|--|
| MATH107 | Pre Calculus Mathematics (4)                       |
| CHEM140 | General Chemistry (4) or                           |
| CHEM240 | Principles of Chem. I (4) and                      |
| CHEM241 | Principles of Chem. II (as Gen Ed computer skills) |
| CHEM301 | General Organic Chemistry (4)                      |
- V. Free Electives 33 or 34 sem. hrs.
- TOTAL 120 sem. hrs.

Students enrolled in the Bachelor of Arts program must attain a minimum grade point average of 2.00 in all BIOL and PYMA courses (excluding Free Electives).

Note: At least 42 semester hours must consist of advanced coursework.

## BACHELOR OF ARTS – BIOLOGY (Suggested Eight-Semester Sequence)

### First Semester

BIOL150	Principles of Biology (4)
CHEM140	General Chemistry (4)
ENGL101	College Writing Skills (3)
CSCI104	Essential Computing I (3)
	TOTAL 14 sem. hrs.

### Second Semester

BIOL230	Botany or
BIOL240	Zoology (4)
ENGL102	Specialized College Writing and Research Skills (3)
MATH107	PreCalculus (4)
	Core (3)
	TOTAL 14 sem. hrs.

### Third Semester

BIOL230	Botany or BIOL240 Zoology (4)
CHEM301	General Organic Chemistry (4)
MATH260	Elements of Statistics (3)
	Core (3)
	TOTAL 14 sem. hrs.

### Fourth Semester

BIOL300	Genetics or
BIOL305	Cell/Molecular Biology (4)
BIOL340	Animal Physiology or
BIOL320	Plant Physiology (4)
CHEM302	General Biochemistry (4)
	Core (3)
	TOTAL 15 sem. hrs.

### Fifth Semester

BIOL400	Ecology (4)
PHYS201	Physics I (4)
	Core (3)
	Free Elective (5)
	TOTAL 16 sem. hrs.



**Sixth Semester**

BIOL	Biology Elective (4)* Core (3) Core (3) Free Elective (6)		
	TOTAL	16 sem. hrs.	

**Seventh Semester**

BIOL	Biology Elective (2)* Distribution (3) Free Elective (11)		
	TOTAL	16 sem. hrs.	

**Eighth Semester**

	Distribution (3) Free Elective (12)		
	TOTAL	15 sem. hrs.	

\* Choose five from the following electives: BIOL300, BIOL302, BIOL305, BIOL308, BIOL309, BIOL314, BIOL courses numbered 318 or above (limit 4 SH max for 395 and 490), and PYMA courses.  
Note: At least 42 semester hours must consist of advanced coursework.

**PRE-PROFESSIONAL PROGRAMS**

Students planning post baccalaureate study in the fields of physician assistant, physical therapy, or chiropractic medicine may enroll in pre-professional track program as described below. The individual requirements of physician assistant, physical therapy, chiropractic medicine and other healing arts schools vary widely. However, a program can be undertaken which will satisfy the entrance requirements of most schools. As soon as a pre-healing arts student identifies himself/herself, preferably upon entering Edinboro University, he/she will be assigned to an advisor from the Pre-Healing Arts Committee. The students should consult regularly with their faculty advisor and modify their program to meet the specific needs of professional school(s) they plan to apply to. At the beginning of the third year at Edinboro University, the student should plan to take any special entrance examinations required for the professional school of his/her choice.

**BACHELOR OF ARTS – BIOLOGY – PRE-PHYSICIAN ASSISTANT****(Suggested Eight-Semester Sequence)****First Semester**

BIOL150	Principles of Biology (4)		
CHEM240	Principles of Chemistry I (4)		
ENGL101	College Writing Skills (3)		
MATH107	Precalculus (4)		
	TOTAL	15 sem. hrs.	

**Second Semester**

BIOL230	Botany or BIOL240 Zoology (4)		
CHEM241	Principles of Chemistry II (4)		
ENGL102	Specialized College Writing and Research Skills (3)		
PSYC101	Introduction to Psychology (3)		
	TOTAL	14 sem. hrs.	

**Third Semester**

BIOL230	Botany or BIOL240 Zoology (4)		
CHEM301	General Organic Chemistry (4)		
MATH260	Elements of Statistics (3)		
SOC100	Principles of Sociology (3)		
	TOTAL	14 sem. hrs.	

**Fourth Semester**

BIOL300	Genetics or BIOL 305 Cell/Molecular Biology (4)		
BIOL340	Animal Physiology (4)		
CHEM302	General Biochemistry (4) Core (3)		
	TOTAL	15 sem. hrs.	

**Fifth Semester**

BIOL341	Vertebrate Anatomy (4)		
PHYS201	Physics I (4) Core (3) Free Elective (6)		
	(Note BIOL 308 or 318 Microbiology highly recommended)		
	TOTAL	16 sem. hrs.	

**Sixth Semester**

BIOL	Biology Elective (2 min)* Core (3) Core (3) Free Elective (6)		
	(Note PHYS202 Physics II highly recommended)		
	TOTAL	14 sem. hrs.	

**Seventh Semester**

BIOL400	Ecology (4) Distribution (3) Free Elective (9)		
	TOTAL	16 sem. hrs.	

**Eighth Semester**

	Distribution (3) Free Elective (12)		
	TOTAL	15 sem. hrs.	

\*Choose five from the following electives: BIOL300, BIOL302, BIOL305, BIOL307, BIOL308, BIOL309, BIOL314, BIOL courses numbered 318 or above (limit 4 SH max for 395 and 490), and PYMA courses

Note: At least 42 semester hours must consist of advanced coursework.

**BACHELOR OF ARTS – BIOLOGY –PRE-PHYSICAL THERAPY****(Suggested Eight-Semester Sequence)****First Semester**

BIOL150	Principles of Biology (4)		
CHEM140	General Chemistry (4)		
ENGL101	College Writing Skills (3)		
CSCI 104	Essentials of Computing (3)		
	TOTAL	14 sem. hrs.	

**Second Semester**

BIOL230	Botany or BIOL240 Zoology (4)		
MATH107	Precalculus (4)		
ENGL102	Specialized College Writing and Research Skills (3)		
SOC100	Principles of Sociology (3)		
	TOTAL	14 sem. hrs.	

**Third Semester**

BIOL230	Botany or BIOL240 Zoology (4)		
CHEM301	General Organic Chemistry (4)		
MATH260	Elements of Statistics (3)		
PSYC101	Introduction to Psychology (3)		
	TOTAL	14 sem. hrs.	

**Fourth Semester**

BIOL300	Genetics or BIOL 305 Cell/Molecular Biology (4)		
BIOL340	Animal Physiology (4)		
CHEM302	General Biochemistry (4) Core (3)		
	TOTAL	15 sem. hrs.	

<b>Fifth Semester</b>			
BIOL341	Vertebrate Anatomy (4)		
PHYS201	Physics I (4)		
PSYC317	Developmental Psychology (3)		
	Core (3)		
	Free Elective (3)		
	<b>TOTAL</b>	<b>16 sem. hrs.</b>	

<b>Sixth Semester</b>			
BIOL	Biology Elective (2 min)*		
	Core (3)		
	Core (3)		
	Free Elective (6)		
	(Note PHYS202 Physics II highly recommended)		
	<b>TOTAL</b>	<b>15 sem. hrs.</b>	

<b>Seventh Semester</b>			
BIOL400	Ecology (4)		
	Free Elective (12)		
	<b>TOTAL</b>	<b>16 sem. hrs.</b>	

<b>Eighth Semester</b>			
	Distribution 1(3)		
	Free Elective (12)		
	<b>TOTAL</b>	<b>15 sem. hrs.</b>	

\*Choose five from the following electives:BIOL300, BIOL302, BIOL305, BIOL308, BIOL309, BIOL314, BIOL courses numbered 318 or above (limit 4 SH max for 395 and 490), and PYMA courses  
Note: At least 42 semester hours must consist of advanced coursework.

### **BACHELOR OF ARTS – BIOLOGY –PRE-CHIROPRACTIC (Suggested Eight-Semester Sequence)**

<b>First Semester</b>			
BIOL150	Principles of Biology (4)		
CHEM240	Principles of Chemistry I (4)		
ENGL101	College Writing Skills (3)		
CSCI 104	Essentials of Computing (3)		
	<b>TOTAL</b>	<b>14 sem. hrs.</b>	

<b>Second Semester</b>			
BIOL230	Botany or BIOL240 Zoology (4)		
MATH107	Precalculus (4)		
ENGL102	Specialized College Writing and Research Skills (3)		
PSYC101	Introduction to Psychology (3)		
	<b>TOTAL</b>	<b>14 sem. hrs.</b>	

<b>Third Semester</b>			
BIOL230	Botany or BIOL240 Zoology (4)		
CHEM301	General Organic Chemistry (4)		
MATH260	Elements of Statistics (3)		
SOC100	Principles of Sociology (3)		
	<b>TOTAL</b>	<b>14 sem. hrs.</b>	

<b>Fourth Semester</b>			
BIOL300	Genetics or BIOL 305 Cell/Molecular Biology (4)		
BIOL340	Animal Physiology (4)		
CHEM302	General Biochemistry (4)		
	Core (3)		
	<b>TOTAL</b>	<b>15 sem. hrs.</b>	

<b>Fifth Semester</b>			
BIOL341	Vertebrate Anatomy (4)		
PHYS201	Physics I (4)		
	Core (3)		
	Free Elective (6)		
	<b>TOTAL</b>	<b>16 sem. hrs.</b>	

<b>Sixth Semester</b>			
BIOL	Biology Elective (2 min)*		
	Core (3)		
	Core (3)		
	Free Elective (7)		
	(Note PHYS202 Physics II highly recommended)		
	<b>TOTAL</b>	<b>15 sem. hrs.</b>	

<b>Seventh Semester</b>			
BIOL400	Ecology (4)		
	Distribution (3)		
	Free Elective (9)		
	<b>TOTAL</b>	<b>16 sem. hrs.</b>	

<b>Eighth Semester</b>			
	Distribution (3)		
	Free Elective (12)		
	<b>TOTAL</b>	<b>15 sem. hrs.</b>	

\*Choose five from the following electives:BIOL300, BIOL302, BIOL305, BIOL308, BIOL309, BIOL314, BIOL courses numbered 318 or above (limit 4 SH max for 395 and 490), and PYMA courses  
Note: At least 42 semester hours must consist of advanced coursework.

## **Bachelor of Science Degree**

### **Biology**

This curriculum is intended for the student who has made a definite commitment to the specialized study of biology at the undergraduate and graduate levels. Its structure provides for a firm, broad basis of comprehension in biological and related scientific disciplines that is commensurate with most graduate school requirements, yet its scope permits a degree of concentration in the student's chosen biological subdivision. Graduate may also find entry level employment in local, state, and federal government agencies, zoos and aquaria, laboratories, educational centers and sales.

- Graduates of the Bachelor of Science in Biology will be able to:
- Acquire the content knowledge of biology through its fundamental theories and terminology.
- Possess the skills to generate, synthesize, and analyze data using the scientific method.
- Possess the written and oral skills needed to communicate effectively with other biologists and with the general public.
- Develop expertise in field and laboratory equipment and techniques; and the ability to work collaboratively.
- Ability to recognize social and ethical issues as they relate to biological issues.

I. General Education Requirements 45 sem. hrs.  
MATH260, not MATH104, fulfills the math skills requirement for this degree program. CHEM241 fulfills the computer competency requirement. CHEM240 fulfills Core 7 and CHEM302 fulfills Distribution 3.

II. Required Biology Courses 28 sem. hrs.

BIOL150	Principles of Biology (4)
BIOL230	Botany (4)
BIOL240	Zoology (4)
BIOL300	Genetics (4)
BIOL305	Cell/Molecular Biology (4)
BIOL320	Plant Physiology (4) <b>or</b>
BIOL340	Animal Physiology (4)
BIOL400	Ecology (4)

III. Biology Electives	16sem. hrs.
Electives must be chosen from the following courses: BIOL302, BIOL308, BIOL309, BIOL314, BIOL courses numbered 318 or above (limit 4 SH max for BIOL395 and 490), and PYMA courses.	
IV. Required Supporting Courses	16-20 sem. hrs.
MATH211	Analytical Geometry and Calculus I (4)
CHEM301	General Organic Chemistry (4) <b>or</b>
CHEM330	Organic Chemistry I (4) <b>and</b>
CHEM331	Organic Chemistry II (4)
PHYS201	Physics I (4)
PHYS202	Physics II (4)
V. Free Electives	11-15 sem. hrs.
TOTAL	120 sem. hrs.

Students enrolled in the Bachelor of Science program must attain a minimum grade point average of 2.00 in all BIOL and PYMA courses (excluding Free Electives).

Note: At least 42 semester hours must consist of advanced coursework.

### BACHELOR OF SCIENCE – BIOLOGY (Suggested Eight-Semester Sequence)

#### First Semester

BIOL150	Principles of Biology (4)
ENGL101	College Writing Skills (3)
CHEM240	Principles of Chemistry I (4)
MATH	Course where placed (3 or 4)
TOTAL	14 or 15 sem. hrs.

#### Second Semester

ENGL102	Specialized College Writing and Research Skills (3)
BIOL230	Botany or BIOL240 Zoology (4)
CHEM241	Principles of Chemistry II (4)
MATH211	Analytical Geometry and Calculus I (4)
Core (3)	
TOTAL	14 sem. hrs.

#### Third Semester

BIOL230	Botany or BIOL240 Zoology (4)
CHEM301	General Organic Chemistry (4) <b>or</b>
CHEM330	Organic Chemistry I (4)
MATH211	Analytical Geometry and Calculus I if already taken Free Elective (3 or 4)
Core (3)	
TOTAL	14 or 15 sem. hrs.

#### Fourth Semester

BIOL300	Genetics (4)
CHEM331	Organic Chemistry II (4) <b>or</b>
CHEM302	General Biochemistry (4)
MATH260	Elements of Statistics (3)
Core (3)	
Core (3)	
TOTAL	17 sem. hrs.

#### Fifth Semester

BIOL305	Cell/Molecular Biology (4)
PHYS201	Physics I (4)
BIOL	Biology Elective (4) *
Distribution (3)	
TOTAL	15 sem. hrs.

#### Sixth Semester

BIOL320	Plant Physiology (4) <b>or</b>
BIOL340	Animal Physiology (4)
CHEM302	General Biochemistry or Free Elective (4)
PHYS202	Physics II (4)
Core (3)	
TOTAL	15 sem. hrs.

#### Seventh Semester

BIOL400	Ecology (4)
BIOL	Biology Elective (4) *
Core (3)	
Distribution (3)	
Free Elective (1-3)	
TOTAL	15 - 17 sem. hrs.

#### Eighth Semester

Biology Electives (8)*	
Free Electives (6)	
TOTAL	14 sem. hrs.

\*Choose five from the following electives: BIOL302, BIOL308, BIOL309, BIOL314, BIOL courses numbered 318 or above (limit 4 SH max for BIOL395 and 490), and PYMA courses.

Note: At least 42 semester hours must consist of advanced coursework.

### PRE-PROFESSIONAL PROGRAMS

Students planning post baccalaureate study in the fields of dentistry, pharmacy, the medical professions, or the veterinary sciences may enroll in pre-professional programs as described below.

#### Pre-Medical and Other Healing Arts Programs

Edinboro University offers a course of study in the liberal arts and sciences well suited to a professional career in the healing arts. The individual requirements of medical, osteopathic, dental, veterinary and other healing arts schools vary widely. However, a program can be undertaken which will satisfy the entrance requirements of most schools. The first two years are critical, and the courses recommended below should be taken with few exceptions. At the end of the school year, the specific requirements of those institutions which are of interest to the student should be reviewed with his/her advisor. As soon as a pre-healing arts student identifies himself/herself, preferably upon entering Edinboro University, he/she will be assigned to an advisor from the Pre-Healing Arts Committee. After the first two years the student should also decide upon the degree he/she wishes to obtain from Edinboro University. Usually the Bachelor of Science in biology or chemistry is most appropriate. However, the faculty advisor should be consulted. At the beginning of the third year at Edinboro University, the student should plan to take any special entrance examinations required for the healing arts school of his/her choice.

### BACHELOR OF SCIENCE – BIOLOGY – PRE-MEDICAL (Suggested Eight-Semester Sequence)

#### First Semester

BIOL150	Principles of Biology (4)
CHEM240	Principles of Chemistry I (4)
ENGL101	College Writing Skills (3)
MATH	Course where placed (3 or 4)
TOTAL	14 or 15 sem. hrs.

#### Second Semester

BIOL230	Botany or BIOL240 Zoology (4)
CHEM241	Principles of Chemistry II (4)
ENGL102	Specialized College Writing and Research Skills (3)
MATH211	Analytical Geometry and Calculus I or Free elective (3 or 4)
TOTAL	14 or 15 sem. hrs.

#### Third Semester

BIOL230	Botany or BIOL240 Zoology (4)
CHEM330	Organic Chemistry I (4)
MATH260	Elements of Statistics (3)
PSYC101	Intro to Psychology (3)
TOTAL	14 sem. hrs.

**Fourth Semester**

BIOL300	Genetics or	
BIOL305	Cell/Molecular Biology (4)	
CHEM331	Organic Chemistry II (4)	
PHYS201	Physics I (4)	
SOC100	Principles of Sociology (3)	
	TOTAL	15 sem. hrs.

**Fifth Semester**

BIOL300	Genetics or	
BIOL305	Cell/Molecular Biology (4)	
BIOL341	Vertebrate Anatomy (4)	
PHYS202	Physics II (4)	
	Core (3)	
	TOTAL	15 sem. hrs.

**Sixth Semester**

BIOL340	Animal Physiology (4)	
CHEM302	General Biochemistry (4)	
BIOL	Biology Elective BIOL 318 Clinical Microbiology recommended (4) *	
	Free Elective PSYC425 Behavioral Neuroscience recommended (3)	
	Distribution (3)	
	TOTAL	15 sem. hrs.

**Seventh Semester**

BIOL400	Ecology (4)	
	Core (3)	
	Core (3)	
	Distribution (3)	
	Free Elective PSYC332 Health Psychology Recommended (3)	
	TOTAL	16 sem. hrs.

**Eighth Semester**

	Biology Electives (5)*	
	Distribution (3)	
	Free Elective (5-9)	
	TOTAL	13-17 sem. hrs.

\*Choose five from the following electives: BIOL302, BIOL308, BIOL309, BIOL314, BIOL320, BIOL340, BIOL341, BIOL342, BIOL395, BIOL409, BIOL451, BIOL490, BIOL520, BIOL521, BIOL522, BIOL523, BIOL537, BIOL540, BIOL542, BIOL543, BIOL547, BIOL555, BIOL557, BIOL561, BIOL562, BIOL601, BIOL602, BIOL603, BIOL604, BIOL609, BIOL610, BIOL640, BIOL641, BIOL643, BIOL646, BIOL661, BIOL664, BIOL681, BIOL682, PYMA\_\_\_\_.)

Students enrolled in the Bachelor of Science program must attain a minimum grade point average of 2.00 in all BIOL and PYMA courses (excluding Free Electives).

Note: At least 42 semester hours must consist of advanced coursework.

\* Choose five from the following electives: BIOL302, BIOL307, BIOL308, BIOL309, BIOL314, BIOL courses numbered 318 or above (limit 4 SH max for 395 and 490), and PYMA courses.

**BE A DOCTOR IN 7 YEARS!**

Edinboro University students can now get an early start on medical school! Edinboro has established an affiliation with the Lake Erie College of Osteopathic Medicine (LECOM) of Erie, Pa., enabling Edinboro University Pre-Medical Biology majors to enter LECOM after their junior year of college. The agreement establishes a three plus four program in family medicine practice between the two schools, which refers to three years undergraduate study at Edinboro and four years of medical school at LECOM. Students who successfully complete their first year of studies at LECOM will earn a Bachelor of Science degree in biology from Edinboro.

The three plus four program in family medicine provides students with an interest in family practice the advantage of complementary program strengths at Edinboro University and a state-of-the-art medical education at Lake Erie College of Osteopathic Medicine. Students MUST apply to the Early Acceptance Program through the LECOM on-line enrollment form at [www.lecom.edu](http://www.lecom.edu) and be accepted prior to being admitted into this major. Students can apply to LECOM prior entering Edinboro University or before February 1<sup>st</sup> of their second year of study at Edinboro University. Students with early acceptance from LECOM should apply for pre-med (444) and write LECOM next to their selection.

To qualify, students must have a high school grade point average of 3.5 or higher and score at least 1170 on the SAT, or 26 on the ACT. Once admitted, students must maintain grade point averages of at least a 3.4 overall and a 3.2 in science courses for their first three years at Edinboro University. Then to be admitted to LECOM, students must score the current LECOM minimum or better on the medical college admissions test, typically with a score of seven or better in each subject.

Please feel free to contact the Admissions Office toll free (888) 8GO-BORO (888-846-2676), local (814) 732-2761, or the Department of Biology, (814) 732-2500 should you have any questions or need additional information.

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**BACHELOR OF SCIENCE – BIOLOGY – PRE-MEDICAL  
LECOM, 3+4 Program  
(Suggested Eight-Semester Sequence)**

**First Semester**

BIOL150	Principles of Biology (4)	
CHEM240	Principles of Chemistry I (4)	
ENGL101	College Writing Skills (3)	
MATH	Course where placed (4)	
	TOTAL	15 sem. hrs.

**Second Semester**

BIOL240	Zoology (4)	
CHEM241	Principles of Chemistry II (4)	
ENGL102	Specialized College Writing and Research Skills (3)	
MATH211	Analytical Geometry and Calculus I if already taken free elective (4)	
	TOTAL	15 sem. hrs.

**Third Semester**

BIOL300	Genetics (4)	
CHEM330	Organic Chemistry I (4)	
MATH260	Elements of Statistics (3)	
PSYC101	Intro to Psychology (3)	
SOC100	Prin. Sociology (3)	
	TOTAL	17 sem. hrs.

**Fourth Semester**

BIOL318	Clinical Microbiology (4)	
CHEM331	Organic Chemistry II (4)	
	Core (3)	
	Core (3)	
	Distribution (3)	
	TOTAL	17 sem. hrs.

**Fifth Semester**

PHYS201	Physics I (4)	
	Core (3)	
	Core (3)	
	Distribution (3)	
	Free elective (5)	
	TOTAL	18 sem. hrs.

**Sixth Semester**

BIOL340	Animal Physiology (4)	
CHEM302	General Biochemistry (4)	
PHYS202	Physics II (4)	
	Free elective (6)	
	<b>TOTAL</b>	18 sem. hrs.

**Seventh and Eight Semesters at LECOM**

<b>TOTAL</b>	20 sem. hrs.
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Note: At least 42 semester hours must consist of advanced coursework.  
Note: Students must maintain grade point averages of at least a 3.4 overall and a 3.2 in science courses for their first three years at Edinboro University.

**Bachelor of Science Degree****Environmental Science-Biology**

This curriculum is intended to provide the student with a specialized study of environmental biology and related scientific disciplines at the undergraduate level. Students who wish to prepare for a career emphasizing the biological components of environmental sciences will find this curriculum appropriate. Graduates may find employment with local, state and federal environmental agencies, zoos and aquaria, private consulting firms, or continue in graduate school.

Graduates of the Bachelor of Science in Environmental Science – Biology will be able to:

- Acquire the content knowledge of environmental sciences through its fundamental theories and terminology.
- Apply the skills to generate, synthesize, and analyze data using the scientific method.
- Possess the written and oral skills needed to communicate effectively with other biologists and with the general public.
- Develop expertise in field and laboratory equipment and techniques; and the ability to work collaboratively.
- Ability to recognize social and ethical issues as they relate to biological issues.

I. General Education Requirements	44 sem. hrs.
MATH107, not MATH104, fulfills the math skills requirement for this degree program. CHEM241 fulfills the computer competency requirement. GEOG245 fulfills Core 3, GEOG145 fulfills Core 6, GEOS101 fulfills Core 7, GEOG340 fulfills Distribution 2, and CHEM301 fulfills Distribution 3.	
II. Required Biology Courses	20 sem. hrs.
BIOL150	Principles of Biology (4)
BIOL230	Botany (4)
BIOL240	Zoology (4)
BIOL300	Genetics (4)
BIOL400	Ecology (4)
III. Biology Electives	18sem. hrs.
To be selected from the following: BIOL302, BIOL307, BIOL308, BIOL309, BIOL314, BIOL courses numbered 318 or above (limit 4 SH max for 395 and 490), and PYMA courses.	
IV. Required Supporting Courses*	22 sem. hrs.
CHEM240	Principles of Chemistry I (4)
PHYS201	Physics I (4)
PHYS202	Physics II (4)
MATH211	Analytical Geometry and Calculus I (4)
ENGL404	Technical Writing (3)
GEOG375	Environmental Geology (3)
V. Free Electives	16 sem. hrs.
<b>TOTAL</b>	120 sem. hrs.

\* Students enrolled in the Bachelor of Science program must attain a minimum grade point average of 2.00 in all BIOL and PYMA courses (excluding Free Electives).

Note: At least 42 semester hours must consist of advanced coursework.

**BACHELOR OF SCIENCE – ENVIRONMENTAL SCIENCE-BIOLOGY****(Suggested Eight-Semester Sequence)****First Semester**

BIOL150	Principles of Biology (4)
CHEM240	Principles of Chemistry I (4)
ENGL101	College Writing Skills (3)
MATH	Course where placed (3 or 4)
	<b>TOTAL</b>
	14 or 15 sem. hrs.

**Second Semester**

BIOL230	Botany or BIOL240 Zoology (4)
CHEM241	Principles of Chemistry II (4)
ENGL102	Specialized College Writing and Research Skills (3)
GEOS101	Dynamic Earth (3)
	<b>TOTAL</b>
	14 sem. hrs.

**Third Semester**

BIOL230	Botany or BIOL240 Zoology (4)
CHEM301	General Organic Chemistry (4)
MATH211	Analytical Geometry and Calculus I. <b>If already taken</b> Free Elective (3 or 4)
GEOG145	Environmental Issues (3)
	<b>TOTAL</b>
	14 or 15 sem. hrs.

**Fourth Semester**

BIOL300	Genetics (4)
ENGL404	Technical Writing (3)
MATH260	Elements of Statistics (3)
Core (3)	
Core (3)	
	<b>TOTAL</b>
	17 sem. hrs.

**Fifth Semester**

BIOL400	Ecology (4)
GEOG340	Economic Geography (3)
PHYS201	Physics I (4)
Core (3)	
	<b>TOTAL</b>
	14 sem. hrs.

**Sixth Semester**

BIOL	Biology Elective (4)*
GEOG375	Environmental Geology (3)
PHYS202	Physics II (4)
Core (3)	
	<b>TOTAL</b>
	14 sem. hrs.

**Seventh Semester**

BIOL	Biology Electives (6)*
GEOG245	Conservation of Natural Resources (3)
Free Electives (6-7)	
	<b>TOTAL</b>
	15 or 16 sem. hrs.

**Eighth Semester**

BIOL	Biology Electives (8)*
	Free Electives (6)
	Distribution (3)
	<b>TOTAL</b>
	17 sem. hrs.

Note: At least 42 semester hours must consist of advanced coursework  
\*Choose five from the following electives: BIOL302, BIOL307, BIOL308, BIOL309, BIOL314, BIOL courses numbered 318 or above (limit 4 SH max for 395 and 490), and PYMA courses.

**MEDICAL TECHNOLOGY PROGRAM**

A medical technologist performs various chemical, microscopic, bacteriologic, immunologic and other medical laboratory procedures used by a physician for determining the presence and extent of disease. Approximately two-thirds of all medical technologists are employed in hospital laboratories. Others work in physicians' offices, armed services and government laboratories and pharmaceutical houses.

The student must have a solid background in chemistry and biology. The curriculum involves three years' work embracing general education, chemistry, biology, and some physics and mathematics at Edinboro University. This is followed by twelve months of study, including didactic and practical training, at an approved hospital. The graduate is eligible for the national certification examinations given by the Board of Registry of Medical Technology and the National Certification Agency for Medical Laboratory Personnel.

Because of the limited availability of clinical facilities for the fourth year of training, only a restricted number of students can be accepted in this program. Students must apply to and be accepted by a hospital for the fourth year of training. Students will be assisted in locating suitable hospital training, but Edinboro University cannot guarantee the availability of clinical training.

Students are admitted provisionally to the Medical Technology curriculum. Students should apply for formal admission early in their sophomore year. The Medical Technology Committee will process the application and determine the student's eligibility based on the following criteria:

- Grade point average of 2.5 or above.
- Grade point average of 2.5 or above in required supporting courses.
- Minimum grade of C in each required supporting course.
- Advisor's recommendation.
- Written statement of career goals.

Graduates of the Bachelor of Science in Medical Technology will:

- have completed the General Education component, developing written and verbal communication and social skills and an appreciation of ethical principles.
  - have completed courses in human physiology and anatomy, chemistry, physics, and mathematics/computer science sufficient to allow comprehension of nuclear medicine laboratory practices.
  - have completed a one-year program at an accredited Nuclear Medicine Technology school.
- have the knowledge and skills necessary to pass the registry examinations administered by the ARRT and/or the NMTCB.

**Bachelor of Science Degree****Medical Technology**

- |     |   |                                       |
|-----|---|---------------------------------------|
| I.  | General Education Requirements  | 44 sem. hrs.                          |
|     | MATH260 fulfills the math skills requirement for this degree program. PHYS201 fulfills Core 7, and CHEM302 fulfills Distribution 3. |                                       |
| II. | Specialization in Medical Technology  | 31 sem. hrs.                          |
|     | MEDT402   | Clinical Chemistry (7)                |
|     | MEDT405   | Medical Bacteriology (6)              |
|     | MEDT406   | Blood Banking (3)                     |
|     | MEDT407   | Hematology and Coagulation (5)        |
|     | MEDT409   | Medical Parasitology and Virology (2) |
|     | MEDT411   | Serology and Immunology (4)           |
|     | MEDT412   | Clinical Microscopy (2)               |
|     | MEDT422   | Medical Mycology (2)                  |

III.	Required Supporting Courses*	29 sem. hrs.
	BIOL300	Genetics or
	BIOL305	Cell/Molecular Biology (4)
	BIOL312	Human Physiology and Anatomy I (4)
	BIOL313	Human Physiology and Anatomy II (4)
	BIOL318	Clinical Microbiology (4)
	BIOL562	Basic Immunology (1)
	CHEM140	General Chemistry (4)
	CHEM301	General Organic Chemistry (4)
	CHEM302	General Biochemistry (4)
IV.	Free Electives	16 sem. hrs.
	Total	120 sem. hrs.

Note: PHYS202 is strongly recommended and may be required by some clinical training facilities.

Note: At least 42 semester hours must consist of advanced coursework. Fees charged by the University are the same as those charged for all other programs. Total costs for each of the first three years will be at the standard rates charged for all Edinboro University students.

During the year in the hospital, students will pay Edinboro a total of \$100 (subject to change). They may be required to pay a fee directly to the hospital for instruction.

For further information about the program, contact:

Dr. Matt Foradori  
Department of Biology and Health Services  
Edinboro University of Pennsylvania  
Edinboro, Pennsylvania 16444  
Phone: (814) 732-2500

**BACHELOR OF SCIENCE – MEDICAL TECHNOLOGY  
(Suggested Eight-Semester Sequence)****First Semester**

BIOL312	Human Physiology and Anatomy I (4)
CHEM140	General Chemistry (4)
ENGL101	College Writing Skills (3)
CSCI104	Essential Computing (3)
TOTAL	14 sem. hrs.

**Second Semester**

BIOL313	Human Physiology and Anatomy II (4)
CHEM301	General Organic Chemistry (4)
ENGL102	Specialized College Writing and Research Skills (3)
	Free Elective (3)
TOTAL	14 sem. hrs.

**Third Semester**

MATH260	Elements of Statistics (3)
PHYS201	Physics I (4)
	Core (3)
	Core (3)
	Free Elective (3)
TOTAL	16 sem. hrs.

**Fourth Semester**

BIOL300	Genetics or BIOL305 Cell/Molecular Biology (4)
PHYS202	Physics II (4)
	Core (3)
	Core (3)
TOTAL	14 sem. hrs.

**Fifth Semester**

CHEM302	General Biochemistry (4)	
	Core (3)	
	Distribution (3)	
	Free Elective (6)	
	<b>TOTAL</b>	16 sem. hrs.

**Sixth Semester**

BIOL318	Clinical Microbiology (4)	
BIOL562	Basic Immunology (1)	
CHEM310	Quantitative Analysis (4)	
	Core (3)	
	Distribution (3)	
	<b>TOTAL</b>	15 sem. hrs.

**Seventh Semester**

MEDT402	Clinical Chemistry (7)	
MEDT405	Bacteriology (6)	
MEDT411	Serology and Immunology (4)	
	<b>TOTAL</b>	17 sem. hrs.

**Eighth Semester**

MEDT406	Blood Banking (3)	
MEDT407	Hematology and Coagulation (5)	
MEDT409	Parasitology and Virology (2)	
MEDT412	Clinical Microscopy (2)	
MEDT422	Medical Mycology (2)	
	<b>TOTAL</b>	14 sem. hrs.

\*Note: Final year is in hospital setting.

Note: At least 42 semester hours must consist of advanced coursework.

**NUCLEAR MEDICINE TECHNOLOGY PROGRAM**

A nuclear medicine technologist (NMT), under the direction of a qualified physician, prepares and administers radiopharmaceuticals, performs in-vitro assays, calibrates and operates instruments for detection of radiation, processes and prepares organ images, and maintains laboratory safety and quality control.

The student must have a solid background in physiology, chemistry, physics and mathematics. The curriculum involves three years of general education, physiology, chemistry, physics and mathematics at Edinboro University. This is followed by twelve months of study, which includes didactic and practical training, under the direction of the Nuclear Medicine Institute or other clinical sites. The Institute (NMI) is currently located at The University of Findlay, Findlay, Ohio. Students will be assisted in applying for the clinical year, but Edinboro University cannot guarantee the availability of clinical training.

Graduates of the Bachelor of Science in Nuclear Medicine Technology will be able to:

- Have completed the General Education component, developing written and verbal communication and social skills and an appreciation of ethical principles.
- Have completed courses in human physiology and anatomy, chemistry, physics, and mathematics/computer science sufficient to allow comprehension of nuclear medicine laboratory practices.
- Have completed a one-year program at an accredited Medical Technology school.
- Have the knowledge and skills necessary to pass the MT registry examination administered by the American Society of Clinical Pathologists.

**Bachelor of Science Degree****Nuclear Medicine Technology**

I. General Education Requirements		43 sem. hrs.
	MATH260, not MATH104, fulfills the math skills requirement for this degree program.	
II. Specialization in Nuclear Medicine		32 sem. hrs.
	NMED401 Basic Math and Nuclear Physics (3)	
	NMED402 Nuclear Medicine Instrumentation (3)	
	NMED403 Radionuclide Measurements (3)	
	NMED404 Radiobiology and Radiation Protection (3)	
	NMED405 Lectures in Physiology, Hematology, Chemistry (3)	
	NMED406 Clinical Application of Radionuclides (4)	
	NMED407 Technical Evaluation of Nuclear Medicine Procedures (6)	
	NMED408 Clinical Nuclear Medicine, Hematology and Chemistry Practicum (7)	
III. Required Supporting Courses*		28 sem. hrs.
	MATH107 Pre-calculus (4)	
	BIOL312 Human Physiology/Anatomy I (4) **	
	BIOL313 Human Physiology/Anatomy II (4) **	
	CHEM140 General Chemistry (4)	
	CHEM301 General Organic Chemistry (4)	
	PHYS201 Physics I (4)	
	PHYS202 Physics II (4)	
IV. Free Electives		17 sem. hrs.
	<b>TOTAL</b>	120 sem. hrs.

\*Selected courses in this area may be used to fulfill General Education requirements.

Note: At least 42 semester hours must consist of advanced coursework  
\*\* Students enrolled in the Bachelor of Science program must attain a minimum grade point average of 2.00 in all BIOL courses (excluding free electives).

**Fees**

Fees charged by the University are the same as those charged for all other programs. Total costs for the first three years will be at the standard rates charged for all Edinboro University students.

During the year in the hospital, students will pay the University a total of \$100 (subject to change). They may be required to pay a fee for instruction directly to the hospital.

For further information about the program, contact:

Department of Biology and Health Services  
Edinboro University of Pennsylvania  
Edinboro, Pennsylvania 16444  
Phone: (814) 732-2500

**BACHELOR OF SCIENCE – NUCLEAR MEDICINE TECHNOLOGY (Suggested Eight-Semester Sequence)****First Semester**

BIOL312	Human Physiology and Anatomy I (4)	
CHEM140	General Chemistry (4)	
ENGL101	College Writing Skills (3)	
MATH107	Precalculus (4)	
	<b>TOTAL</b>	15 sem. hrs.

<b>Second Semester</b>	
BIOL313	Human Physiology and Anatomy II (4)
CHEM301	General Organic Chemistry (4)
ENGL102	Specialized College Writing and Research Skills (3)
MATH260	Elements of Statistics (3)
	TOTAL 16 sem. hrs.
<b>Third Semester</b>	
PHIL200	Introduction to Philosophy and Values (3)
PHYS201	Physics I (4)
CSCI104	Essential Computing I (3)
	Core (3)
	Core (3)
	TOTAL 16 sem. hrs.
<b>Fourth Semester</b>	
CHEM302	General Biochemistry (4)
PHYS202	Physics II (4)
	Core (3)
	Distribution (3)
	TOTAL 14 sem. hrs.
<b>Fifth Semester</b>	
	Core (3)
	Core (3)
	Core (3)
	Distribution (3)
	Free Electives (3)
	TOTAL 15 sem. hrs.
<b>Sixth Semester</b>	
	Free Electives (14)
	TOTAL 14 sem. hrs.
<b>Seventh Semester</b>	
NMED401	Basic Mathematics and Nuclear Physics (3)
NMED402	Nuclear Medicine Instrumentation (3)
NMED403	Radionuclide Measurement (3)
NMED404	Radiobiology and Radiation Protection (3)
NMED405	Physiology, Hematology and Chemistry (3)
	TOTAL 15 sem. hrs.
<b>Eighth Semester</b>	
NMED406	Clinical Radionuclides (4)
NMED407	Nuclear Medicine Procedures (6)
NMED408	Clinical Medicine Practicum (7)
	TOTAL 17 sem. hrs.

Note: At least 42 semester hours must consist of advanced coursework

## Bachelor of Science in Education Degree

### Secondary Education - Biology

Please refer to the Secondary Education Department section for information regarding this program.

## Chemistry Department

FACULTY: Paul A. Edwards, Qun Gu, Gerald J. Hoffman, Naod Kebede, Janet S. Rogers, Joanne H. Smith, Theresa Thewes, Lisa M. Unico

The Department of Chemistry offers instruction in chemistry leading to the Associate of Science degree, Chemistry/pre-Pharmacy, Bachelor

of Science degree, Chemistry; the Bachelor of Science degree, Chemistry/Biochemistry; the Bachelor of Science degree, Chemistry/Forensic Science; and the Bachelor of Arts, Chemistry. It also offers a minor in chemistry, supervises students in the pre-pharmacy transfer program, and cooperates with the Department of Secondary Education in offering the Bachelor of Science degree in Secondary Education – Chemistry.

The Bachelor of Science degree in Chemistry is intended for those who desire to 1) pursue a graduate degree in chemistry or a related science, 2) enter business or industry as a chemist or, 3) obtain a solid background in the traditional sub-disciplines of inorganic, organic, biochemical, analytical, physical, and polymer chemistry. It is a rigorous, high caliber program recognized by the American Chemical Society (ACS) as an approved program. It can also serve as the basis of an excellent pre-medical program.

The Bachelor of Science degree in Chemistry/Biochemistry is designed for those students who desire a career in biological chemistry laboratories or the pharmaceutical industry. It is also an excellent choice as a pre-medical program or for persons interested in pursuing a graduate degree in biochemistry.

Graduates of the Bachelor of Science degree in Chemistry/Forensic Sciences qualify for entry level positions with the FBI, state police, and crime labs, provided that they pass their background check. This degree program was developed in collaboration with a Forensic Advisory Board (FAB) whose membership consisted of practicing forensic scientists and law enforcement practitioners from New York, Ohio, and Pennsylvania. The FAB developed the Forensic Science curriculum to enable program graduates to obtain positions as forensic scientists working in areas of chemical and DNA analysis. Graduates also qualify for positions as trace evidence technicians with various law enforcement agencies. This program provides training in chemistry, biology, and criminal justice to meet the demands of investigative laboratories. It also provides a strong foundation to pursue graduate programs in forensic science or chemistry.

The Bachelor of Arts degree in Chemistry is the program followed by students majoring in Secondary Education-Chemistry. This program provides more flexibility than the Bachelor of Science degree program. This makes it, therefore, an excellent program for those who wish to possess a solid background in chemistry yet pursue a more multidisciplinary program, allowing students to incorporate coursework for other areas of interest.

The pre-pharmacy program provides the first two years of study toward a Doctor of Pharm D degree. The curriculum was designed in cooperation with the Lake Erie College of Osteopathic Medicine (LECOM), but is appropriate for transfer to most colleges of pharmacy. Because certain schools of pharmacy may require slight variations from the curriculum, early contact with your pre-pharmacy advisor and your chosen pharmacy school is recommended. Students meeting certain selective admission requirements may be accepted directly into an accelerated curriculum at LECOM. Students who complete the required courses and successfully matriculated into pharmacy programs can receive an Associate of sciences/Pre-Pharmacy or Associate of Science/Pre-Pharmacy – LECOM degree.

Beginning students who are interested in chemistry but unsure of their specific career goal should note that there is much similarity in the first year science and mathematics requirements of the various science, engineering and pre-professional curricula. Careful planning and consultation with an academic advisor will often allow the choice of a specific program to be deferred into the second year with no delay in program completion.



All students wishing to take either CHEM 140 General Chemistry or CHEM 240 Principles of Chemistry I must pass the chemistry placement exam. Additional information regarding the chemistry placement exam can be found on the department's website.

## Associate of Science Degree

### Pre-Pharmacy Transfer Program

Successful completion of the program outlined below should be sufficient for consideration for admission to most schools of pharmacy. However, early in his/her program of study the student should consult with their pre-pharmacy advisor and contact the specific schools he/she wishes to enter to obtain specific requirements of those institutions.

#### Admissions Requirements

Although the only requirement for admission to the Pre-Pharmacy program is admission to the University, students who meet a higher standard and finish the required curriculum with at least a 3.4 average are given first consideration for admission to the Doctor of Pharmacy program at LECOM. For selection to that program a student should score at least 1170 (Math and Verbal) on the SAT or 26 on the ACT, and complete high school in the top 25 percent of their class with an average of at least 3.5 out of 4.0.

Graduates of the AS in Pre-Pharmacy program will be able to:

- Apply critical thinking, analytical and logical skills in solving problems;
- Apply foundational tools, theories, and practices of chemistry and allied sciences;
- Understand current social and ethical issues related to chemical sciences;
- Communicate technical information in a professional manner;
- Apply technical and analytical skills in a professional setting.

#### First Semester

ENGL101	College Writing Skills (3)	
MATH107	Precalculus (4)	
CHEM240	Principles of Chemistry I (4)	
BIOL150	Principles of Biology (4)	
PSYC101	Introduction to Psychology (3)	
	<b>TOTAL</b>	<b>18 sem. hrs.</b>

#### Second Semester

ENGL102	Specialized College Writing and Research Skills (3)	
MATH211	Analytical Geometry and Calculus I (4)	
CHEM241	Principles of Chemistry II (4)	
PHYS201	Physics I (4)	
CSCI104	Essentials of Computing (3) or Discipline-specific Computer Competency Course	
	<b>TOTAL</b>	<b>18 sem. hrs.</b>

#### Third Semester

CHEM330	Organic Chemistry I (4)	
BIOL300	Genetics (4)	
COMM107	Public Speaking (3)	
ECON225	Principles of Macro-Economics (3) Core 2, 3. Or 6 course (3)	
	<b>TOTAL</b>	<b>18 sem. hrs.</b>

#### Fourth Semester

CHEM331	Organic Chemistry II (4)	
BIOL305	Cell and Molecular Biology (4)	
MATH260	Elements of Statistics (3)	
	Core 1 – Arts & Humanities course (3)	
SOC100	Principles of Sociology – Core 5 (3)	
	<b>TOTAL</b>	<b>16 sem. hrs.</b>

## Bachelor of Arts Degree

### Chemistry

Graduates of the BA in Chemistry program will be able to:

- Apply critical thinking, analytical and logical skills in solving problems;
- Apply core knowledge, theories, and practices of chemistry and allied sciences;
- Understand current social and ethical issues related to chemical sciences;
- Communicate technical information in a professional manner;
- Apply technical and analytical skills in a professional setting.

I.	General Education Requirements	45 sem. hrs.
II.	Specialization in Chemistry*	29 sem. hrs.
	CHEM240	Principles of Chemistry I (4)
	CHEM241	Principles of Chemistry II (4)
	CHEM280	Laboratory Safety (1)
	CHEM310	Quantitative Analysis (4)
	CHEM330	Organic Chemistry I (4)
	CHEM331	Organic Chemistry II (4)
	CHEM341	Biochemistry (4)
	CHEM530	Physical Chemistry I (4)
	CHEM531	Physical Chemistry II (4)
III.	Required Supporting Courses	11-13 sem. hrs.
	MATH211	Analytical Geometry and Calculus I (4) **
	MATH212	Analytical Geometry and Calculus II (4) **
	MATH260	Elements of Statistics (3)
	PHYS201	Physics I (4) <b>or</b>
	PHYS320	University Physics I (4) <b>and</b>
	PHYS322	Physics Measurements Laboratory I (1)
	PHYS202	Physics II (4) <b>or</b>
	PHYS321	University Physics II (4) <b>and</b>
	PHYS323	Physics Measurements Laboratory II (1)
IV.	Free Electives	33-35 sem. hrs.
	<b>TOTAL</b>	<b>120 sem. hrs.</b>

\*Students enrolled in the Bachelor of Arts program must attain a cumulative quality point average of 2.00 or higher in chemistry courses to be eligible for graduation. A minimum grade of "C" is required in CHEM240, 241, 302, 310, 330, 331, and 530.

\*\* Credits are recorded under the General Education section.

#Note: At least 42 semester hours must consist of advanced coursework.

### BACHELOR OF ARTS – CHEMISTRY (Suggested Eight-Semester Sequence)

#### First Semester

ENGL101	College Writing Skills (3)	
MATH211	Analytical Geometry and Calculus I (4)	
CHEM240	Principles of Chemistry I (4)	
	Core (3)	
	Core (3)	
	<b>TOTAL</b>	<b>17 sem. hrs.</b>

<b>Second Semester</b>					
ENGL102	Specialized College Writing and Research Skills (3)			CHEM331	Organic Chemistry II (4)
PHYS201	Physics I (4) <b>or</b>			CHEM341	Biochemistry (4)
PHYS320	University Physics I (4) <b>and</b>			CHEM381	Searching Scientific Literature (1)
PHYS322	Physical Measurements Laboratory I (1)			CHEM420	Inorganic Chemistry (3)
CHEM241	Principles of Chemistry II (4) (fulfills required Computer Competency Course)			CHEM421	Advanced Organic Chemistry (3)
MATH212	Analytical Geometry and Calculus II (4)			CHEM450	Instrumental Analysis (5)
	TOTAL	16 sem. hrs.		CHEM481	Seminar (1)
				CHEM490	Independent Study (2)
<b>Third Semester</b>				CHEM530	Physical Chemistry I (4)
PHYS202	Physics II (4) <b>or</b>			CHEM531	Physical Chemistry II (4)
PHYS321	University Physics II (4) <b>and</b>			CHEM533	Polymer Chemistry (3)
PHYS323	Physical Measurements Laboratory II (1)			CHEM535	Advanced Chemistry Laboratory I (1)
CHEM310	Quantitative Analysis (4)			III. Required Supporting Courses	16-17 sem. hrs.
CHEM330	Organic Chemistry I (4)			BIOL150	Principles of Biology (4)**
MATH260	Elements of Statistics (3)			MATH211	Analytical Geometry and Calculus I (3)**
	TOTAL	15 or 16 sem. hrs.		MATH212	Analytical Geometry and Calculus II (4)
				MATH260	Elements of Statistics (3)
<b>Fourth Semester</b>				MATH311	Analytical - Geometry and Calculus III (4) <b>or</b>
CHEM331	Organic Chemistry II (4)				Introduction to Differential Equations (3) <b>or</b>
CHEM280	Laboratory Safety (1)			MATH317	Principles of Programming I (3)
	Core (9)				First Course in French (3)** <b>or</b>
	TOTAL	14 sem. hrs.		CSCI130	First Course in German** <b>or</b>
<b>Fifth Semester</b>				FREN101	First Course in Russian**
CHEM341	Biochemistry (4)			GERM101	University Physics I (4)**
CHEM530	Physical Chemistry I (4)			RUSS101	University Physics II (4)
	Free Elective (3)			PHYS320	Physical Measurements Laboratory I (1)
	Core (3)			PHYS321	Physical Measurements Laboratory II (1)
	Distribution (3)			PHYS322	
	TOTAL	17 sem. hrs.		PHYS323	
<b>Sixth Semester</b>				IV. Electives	8-10 sem. hrs.
CHEM531	Physical Chemistry II (4)				TOTAL
	Core (3)				120 sem. hrs.
	Distribution (3)				
	Free Electives (6)				
	TOTAL	16 sem. hrs.			
<b>Seventh Semester</b>					
	Free Electives (15)				
	TOTAL	15 sem. hrs.			
<b>Eighth Semester</b>					
	Free Electives (12)				
	TOTAL	12 sem. hrs.			

\*Students enrolled in the Bachelor of Science program must attain a minimum cumulative grade point average of 2.00 in chemistry courses to be eligible for graduation. A minimum grade of "C" is required in CHEM240, 241, 310, 330, 331, 341, 530, and 531.

\*\*Courses required by the degree that satisfy General Education requirements.

## BACHELOR OF SCIENCE – CHEMISTRY (Suggested Eight-Semester Sequence)

### First Semester

ENGL101	College Writing Skills (3)
MATH211	Analytical Geometry and Calculus I (4)
CHEM240	Principles of Chemistry I (4)
	Core (3)
	Core (3)
	TOTAL
	17 sem. hrs.

### Second Semester

ENGL102	Specialized College Writing and Research Skills (3)
MATH212	Analytical Geometry and Calculus II (4)
CHEM241	Principles Chemistry II (4)
PHYS320	University Physics I (4)
PHYS322	Physical Measurements Laboratory I (1)
	TOTAL
	16 sem. hrs.

### Third Semester

PHYS321	University Physics II (4)
PHYS323	Physical Measurements Laboratory II (1)
CHEM330	Organic Chemistry I (4)
MATH260	Elements of Statistics (3)
FREN101 (3) or GERM101 (3) or RUSS101 (3)	
	TOTAL
	15 sem. hrs.

## Bachelor of Science Degree

### Chemistry

Graduates of the BS in Chemistry program will be able to:

- Apply critical thinking, analytical and logical skills in solving problems;
- Apply core knowledge, theories, and practices of chemistry and allied sciences;
- Understand current social and ethical issues related to chemical sciences;
- Communicate technical information in a professional manner;
- Apply technical and analytical skills in a professional setting.

I. General Education Requirements		46 sem. hrs.
II. Specialization in Chemistry*		48 sem. hrs.
CHEM240	Principles of Chemistry I (4)	
CHEM241	Principles of Chemistry II (4)	
CHEM280	Laboratory Safety (1)	
CHEM310	Quantitative Analysis (4)	
CHEM330	Organic Chemistry I (4)	

**Fourth Semester**

CHEM331	Organic Chemistry II (4)	
CHEM280	Laboratory Safety (1)	
BIOL150	Principles of Biology (3)	
MATH213 (4) or MATH317 (3) or CSC1303 (3)	Core (3)	
	<b>TOTAL</b>	14 or 15 sem. hrs.

**Fifth Semester**

CHEM310	Quantitative Analysis (4)	
CHEM341	Biochemistry (4)	
CHEM381	Searching Scientific Literature (1)	
CHEM530	Physical Chemistry I (4)	
	<b>TOTAL</b>	13 sem. hrs.

**Sixth Semester**

CHEM450	Instrumental Analysis (5)	
CHEM531	Physical Chemistry II (4)	
CHEM533	Polymer Chemistry (3)	
	Free Elective (3)	
	Distribution (3)	
	<b>TOTAL</b>	16 sem. hrs.

**Seventh Semester**

CHEM420	Inorganic Chemistry (3)	
CHEM421	Advanced Organic Chemistry (3)	
CHEM535	Advanced Chemistry Lab (1)	
	Core (3)	
	Elective (3)	
	<b>TOTAL</b>	16 sem. hrs.

**Eighth Semester**

CHEM481	Seminar (1)	
CHEM490	Independent Study (2)	
	Elective (3-4)	
	Core (3)	
	Distribution (3)	
	<b>TOTAL</b>	15 sem. hrs.

**Bachelor of Science Degree****Chemistry/Forensic Sciences**

There is evidence that laboratories dealing with the investigation of criminal acts are moving toward hiring employees that are trained more as scientists than as police investigators. There is a large employment opportunity for individuals who have the appropriate training. The employment outlook for graduates of this program is excellent. Graduates of the program qualify for Civil Service examinations for forensic scientist trainee. There is currently a need for forensic chemists that will continue in Pennsylvania (and nationwide) with an increased emphasis on forensic evidence collection and analysis spurred by developments in DNA testing and other scientific advancements. Additionally, the increase in drug interdiction cases has placed new burdens on chemical analysis units at all levels of law enforcement. Graduates of the program qualify for entry level positions with the FBI, state police, and crime labs. Graduates also qualify for positions as trace evidence technicians with various law enforcement agencies.

This program highly recommends an internship (40 hours of work for six weeks) that will be supervised by a chemistry faculty member. This program provides training to meet the demands of investigative laboratories and a strong foundation to pursue graduate programs in forensic science and chemistry. Careful selection of courses can lead to a minor in criminal justice.

Graduates of the BS in Chemistry/Forensic Sciences program will be able to:

- Apply critical thinking, analytical and logical skills in solving problems;
- Apply core knowledge, theories, and practices of chemistry and allied sciences;
- Understand current social and ethical issues related to chemical sciences;
- Communicate technical information in a professional manner;
- Apply technical and analytical skills in a professional setting.

I.	General Education Requirements	46 sem. hrs.
II.	Chemistry*	35 sem. hrs.
	CHEM240	Principles of Chemistry I (4)
	CHEM241	Principles of Chemistry II (4)**
	CHEM280	Laboratory Safety (1)
	CHEM310	Quantitative Analysis (4)
	CHEM330	Organic Chemistry I (4)
	CHEM331	Organic Chemistry II (4)
	CHEM341	Biochemistry (4)
	CHEM381	Searching Scientific Literature (1)
	CHEM450	Instrumental Analysis (5)
	CHEM460	Forensic Analysis (3)
	CHEM481	Seminar (1)
	CHEM530	Physical Chemistry I (4)
III.	Criminal Justice Requirements	9 sem. hrs.
	CRIM100	Introduction to Criminal Justice (3)
	CRIM355	Criminalistics (3)
	CRIM469	Criminal Procedure and Evidence (3)
IV.	Degree Electives	3 sem. hrs.
	One course from the following list:	
	CRIM340	Criminal Investigation (3)
	CRIM443	Arson Investigation (3)
	CRIM500	Seminar in Criminal Justice (3)
	CRIM265	Introduction to Courts, Criminal Law and Procedure (3)
V.	Required Supporting Courses	23 sem. hrs.
	ANTH180	Introduction to Anthropology (3)**
	BIOL150	Principles of Biology (4)**
	BIOL300	Genetics (4)
	BIOL305	Cell and Molecular Biology (4)
	BIOL409	Molecular Biology and Genomics (4)
	MATH211	Analytical Geometry and Calculus I (4)**
	MATH212	Analytical Geometry and Calculus II (4)**
	MATH260	Elements of Statistics (3)
	POLI101	Intro to American Politics (3)**
	PHYS201	Physics I (4)
	PHYS202	Physics II (4)
	SOC100	Principles of Sociology (3)
	ANTH385	Introduction to Physical Anthropology (3)** or
	HIST379	U.S. Police History (3)* or
	SOC320	Sociology of Deviance (3)**
VI.	Electives	4 sem. hr.
	<b>TOTAL</b>	120 sem. hrs.

\*Students enrolled in the Bachelor of Science program must attain a minimum cumulative grade point average of 2.0 in chemistry courses to be eligible for graduation. A minimum grade of "C" is required in CHEM240, CHEM241, CHEM310, CHEM330, CHEM331, CHEM341, CHEM450, and CHEM460.

\*\*Courses required by the degree that satisfy General Education requirements.

Students will be required to maintain a 2.5 QPA in required coursework.

**Related Programs at Edinboro**

Bachelor of Science in Chemistry  
 Bachelor of Science in Biochemistry  
 Bachelor of Arts in Criminal Justice  
 Associate of Arts in Criminal Justice

**BACHELOR OF SCIENCE – CHEMISTRY/FORENSIC SCIENCES**

(Suggested Eight-Semester Sequence)

**First Semester**

ENGL101	College Writing Skills (3)
CHEM240	Principles of Chemistry I (4)
CRIM100	Introduction to Criminal Justice (3)
BIOL150	Principles of Biology (4)
	TOTAL 14 sem. hrs.

**Second Semester**

ENGL102	Specialized College Writing and Research Skills (3)
CHEM241	Principles of Chemistry II (4)
ANTH180	Introduction to Anthropology (3)
POLI101	Intro to American Politics (3)
	Core (3)
	TOTAL 16 sem. hrs.

**Third Semester**

CHEM330	Organic Chemistry I (4)
BIOL300	Genetics (4)
MATH211	Analytical Geometry and Calculus I (4)
	Core (3)
	TOTAL 15 sem. hrs.

**Fourth Semester**

CHEM331	Organic Chemistry II (4)
CRIM469	Criminal Procedure and Evidence (3)
MATH212	Analytical Geometry and Calculus II (4)
SOC100	Principles of Sociology (3)
	Core (3)
	TOTAL 17 sem. hrs.

**Fifth Semester**

CHEM310	Quantitate Analysis (4)
CHEM341	Biochemistry (4)
CHEM381	Searching Scientific Literature (1)
MATH260	Elements of Statistics (3)
PHYS201	Physics I (4)
	TOTAL 16 sem. hrs.

**Sixth Semester**

BIOL305	Cell and Molecular Biology (4)
CHEM280	Laboratory Safety (1)
CHEM450	Instrumental Analysis (5)
PHYS202	Physics II (4)
	TOTAL 14 sem. hrs.

**Seventh Semester**

CRIM355	Criminalistics (3)
CHEM530	Physical Chemistry I (4)
	<b>Choose one of the following electives:</b>
CRIM340	Criminal Investigation (3) <b>or</b>
CRIM443	Arson Investigation (3) <b>or</b>
CRIM500	Seminar in Criminal Justice (3) <b>or</b>
CRIM265	Introduction to Courts, Criminal Law and Procedure (3)
	<b>Choose one of the following:</b>
ANTH385	Introduction to Physical Anthropology (3) <b>or</b>
HIST379	U.S. Police History (3) <b>or</b>
SOC320	Sociology of Deviance (3)
	TOTAL 13 sem. hrs.

**Eighth Semester**

CHEM460	Forensic Analysis (3)
CHEM481	Seminar (1)
BIOL409	Molecular Biology (4)
	Distribution I (3)
	Elective (4)
	TOTAL 15 sem. hrs.

**Bachelor of Science Degree****Chemistry/Biochemistry**

Graduates of the BS in Chemistry/Biochemistry program will be able to:

- Apply critical thinking, analytical and logical skills in solving problems;
- Apply core knowledge, theories, and practices of chemistry and allied sciences;
- Understand current social and ethical issues related to chemical sciences;
- Communicate technical information in a professional manner;
- Apply technical and analytical skills in a professional setting.

I.	General Education Requirements	46 sem. hrs.
II.	Specialization in Chemistry*	38 sem. hrs.
	CHEM240	Principles of Chemistry I (4)
	CHEM241	Principles of Chemistry II (4)**
	CHEM310	Quantitative Analysis (4)
	CHEM330	Organic Chemistry I (4)
	CHEM331	Organic Chemistry II (4)
	CHEM341	Biochemistry (4)
	CHEM280	Laboratory Safety (1)
	CHEM450	Instrumental Analysis (5)
	CHEM490	Indep. Study Chem (1)
	CHEM530	Physical Chemistry I (4)
	CHEM531	Physical Chemistry II (4)
	CHEM541	Advanced Biochemistry (3)
III.	Required Supporting Courses	22 sem. hrs.
	BIOL150	Principles of Biology (4)**
	BIOL300	Genetics (4)
	BIOL305	Cell and Molecular Biology (4)
	BIOL409	Molecular Biology (4)
	MATH211	Analytical Geometry and Calculus I (4)**
	MATH212	Analytical Geometry and Calculus II (4)
	PHYS320	University Physics I (4)**
	PHYS321	University Physics II (4)**
	PHYS322	Physical Measurements Laboratory I (1)
	PHYS323	Physical Measurements Laboratory II (1)
IV.	Free Electives	14 sem. hrs.
	TOTAL	120 sem. hrs.

\*Students enrolled in the bachelor of science program must attain a minimum cumulative grade point average of 2.00 in chemistry courses to be eligible for graduation. A minimum grade of "C" is required in CHEM240, CHEM241, CHEM310, CHEM330, CHEM331, CHEM341 and CHEM530.

\*\*Courses required by the degree that satisfy General Education requirements.

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**BACHELOR OF SCIENCE – CHEMISTRY/BIOCHEMISTRY**  
**(Suggested Eight-Semester Sequence)**
**First Semester**

ENGL101	College Writing Skills (3)
MATH211	Analytical Geometry and Calculus I (4)
BIOL150	Principles of Biology (4)
CHEM240	Principles of Chemistry I (4)
	Core (3)
	<b>TOTAL 18 sem. hrs.</b>

**Second Semester**

ENGL102	Specialized College Writing and Research Skills (3)
MATH212	Analytical Geometry and Calculus II (4)
CHEM241	Principles of Chemistry II (4)
PHYS320	University Physics I (4)
PHYS322	Physical Measurements Laboratory I (1)
	<b>TOTAL 16 sem. hrs.</b>

**Third Semester**

CHEM330	Organic Chemistry I (4)
CHEM310	Quantitative Analysis (3)
PHYS321	University Physics II (4)
PHYS323	Physical Measurements Laboratory II (1)
	Core (3)
	<b>TOTAL 16 sem. hrs.</b>

**Fourth Semester**

CHEM331	Organic Chemistry II (4)
CHEM280	Laboratory Safety (1)
	Core (3)
	Free Elective (6)
	<b>TOTAL 14 sem. hrs.</b>

**Fifth Semester**

BIOL300	Genetics (4)
CHEM341	Biochemistry (4)
CHEM450	Instrumental Analysis (5)
	Free Elective (3)
	<b>TOTAL 16 sem. hrs.</b>

**Sixth Semester**

BIOL305	Cell and Molecular Biology (4)
CHEM490	Indep. Study Chemistry (1)
CHEM541	Advanced Biochemistry (4)
	Core (3)
	<b>TOTAL 12 sem. hrs.</b>

**Seventh Semester**

CHEM530	Physical Chemistry I (4)
	Core (3)
	Distribution (3)
	<b>TOTAL 15 sem. hrs.</b>

**Eighth Semester**

CHEM531	Physical Chemistry II (4)
BIOL409	Molecular Biology and Genomics (4)
	Distribution (3)
	Free Elective (4)
	<b>TOTAL 15 sem. hrs.</b>

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## Bachelor of Science in Education Degree

### Secondary Education – Chemistry

Students preparing to teach chemistry in secondary schools are cooperatively advised by members of the Chemistry and Secondary Education faculty. Details of this program are given in the Secondary Education section.

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## Geosciences Department

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**FACULTY:** Richard Deal, Karen Eisenhart, Baher A. Ghosheh, Jeffrey J. Gryta, David Hurd, Tadesse Kidane-Mariam, Henry Lawrence, Wook Lee, Kerry A. Moyer, Laurie A. Parendes, Joseph Reese, Eric Straffin, Dale Tshudy, Brian Zimmerman

The Department of Geosciences offers two major degree programs: Geology and Geography. “Geo science” literally means the scientific study of the *earth* and all of its dynamic processes, and has traditionally been associated with physical earth sciences such as geology, meteorology, and space science. In our modern world, however, we increasingly recognize that the study of the Earth requires an understanding of human societies and how they interact with the environment across space and through time. Studying how human and physical phenomena are distributed across space and how they interact with one another -- that is, how the environment has shaped society, and in turn how society is shaping the environment -- requires a geographic approach. Traditional geographic fields of study are cartography, regional studies, environment-society interactions, and urban and regional planning of human communities. By combining a Geology program and a Geography program in a single Geosciences Department, we can address a broad range of student interests. Students from both major programs will be prepared to enter traditional geology or geography careers, but also will be prepared for emerging employment opportunities associated with earth sciences, natural resources, environmental issues, and/or planning careers. Students majoring in Geology or Geography are encouraged to become proficient in computer skills. Knowledge of software applications including those unique to the disciplines is recommended.

The Department of Geosciences plays a prominent role in providing general education courses for students majoring in other curricula and provides coursework necessary to complete degrees in elementary education and secondary education (i.e., earth and space science, social studies, and general science). These programs are administered by the School of Education. Students interested in a career in teaching should refer to the Middle and Secondary Education Department sections of this catalog.

The department also operates the Edinboro University Planetarium for university classes, K-12 school programs, and hosts programs for the community.

### Geology Program

Geology is an interdisciplinary science that studies the earth and its structural history, including the evolution of life and the atmosphere. Students interested in the physical earth sciences may pursue a Bachelor of Science degree in Geology, which offers students two options. The Bachelor of Science Degree in Geology permits a student to select a traditional program in Geology or to concentrate his/her studies in Environmental Geology. The traditional undergraduate degree in geology provides a classical, broad-based exposure to geological disciplines and thus, prepares the graduate well for entry into a wide variety of geological careers and for graduate school. Graduates commonly find employment in geologic careers ranging from petroleum exploration to environmental geology (e.g. groundwater concerns) and, with advanced degrees, to academia. The Environmental Geology Concentration is tailored for those who wish to enter the environmental geology field. It prepares the graduate well for entry into a range of geological and environmental careers and for graduate school in these disciplines. Graduates commonly

find employment in geologic aspects of groundwater supply, contamination and remediation, as well as soils, slope stability, and other environmental geology concerns.

In addition to the Bachelor of Science degree in Geology, students may elect to pursue a Bachelor of Arts degree in Earth Sciences. The B. A. in Earth Sciences provides students with a broad exposure to the earth sciences, but with fewer related requirements in math and science.

### Geography Program

Geography is an interdisciplinary field that takes a spatial approach to studying phenomena. Geographers are interested in how physical or human-related phenomena are distributed across space (mapping), the underlying physical or social causes for the past or current distributions, how phenomena (i.e., resources, cultures, households, energy, ideas, etc.) are transferred from one place to another, and predicting or planning for future distributions of phenomena. Using a spatial point of view, a geographer can focus on any of a wide range of topics that include physical geography, human geography, and human-environment interactions. Because of this, geography pairs very well with many other fields of study from the physical sciences to the social sciences to the humanities to computer sciences. Geography majors are encouraged to work closely with their academic advisor to construct a course of study that is best related to their academic interests and future career aspirations.

Students interested in geographical studies may pursue a Bachelor of Arts degree in Geography, which offers students three options. The first option is to pursue a traditional undergraduate degree in Geography, the second is to pursue a Concentration in Environmental Studies, and the third is to pursue a Concentration in Urban and Regional Planning. All three options require students to complete six required geography courses, which are the foundation of the geography major. Each option has additional geography requirements that are specific to that concentration. In addition, each provides students with a number of free electives that can be used by students to tailor studies more closely to their interests under the advice of their department advisor. As a consequence, many geography majors will elect to complete one or two minors in a complimentary field.

## Bachelor of Arts Degree

### Earth Sciences

The Bachelor of Arts in Earth Sciences degree allows the student interested in the earth sciences a great deal of flexibility in designing a more personalized program of study. In addition to preparation for traditional earth science careers, this program can lead to careers in law, business, political science, education, environmental activism, or any field where a liberal arts education and broad familiarity with the earth sciences would be advantageous.

The objectives of the Bachelor of Arts program in Earth Sciences are to:

1. develop skills of analysis, synthesis, critical thinking, problem solving.
2. provide a broad general background in the sub-disciplines of the earth sciences.
3. develop skills of written and oral communication.
4. become technologically proficient by using basic computer software.
5. develop basic expertise with field and laboratory equipment and techniques.
6. provide a liberal arts education and prepare students for employment in one of many fields where a broad familiarity with the earth sciences would be advantageous.

I. General Education Requirements	44 sem. hrs.
II. Earth Science Requirements*	33 sem. hrs.
A. The following are required courses:	15 sem. hrs.
GEOS101	Dynamic Earth (3)
GEOS112	Principles of Earth History (3)
GEOS310	Oceanography (3)
GEOS320	Meteorology I (3)
PHYS271	Frontiers of Astronomy (3)
B. At least 18 additional semester hours must be selected from GEOS courses numbered 300 and above	18 sem. hrs.
III. Required Supporting Courses	7 sem. hrs.
BIOL102	Environmental Biology (3)
CHEM240	Principles of Chemistry I (4)
IV. Free Electives	36 sem. hrs.
<b>TOTAL</b>	<b>120 sem. hrs.</b>

\*A grade of “C” or better is required in each course.  
Note: At least 42 semester hours must consist of advanced coursework.

### BACHELOR OF ARTS – EARTH SCIENCES (Suggested Eight-Semester Sequence)

<b>First Semester</b>	
ENGL101	College Writing Skills (3)
CSCI104	Essential Computing I (3) or Discipline-specific Computer Competency Course
MATH107	Precalculus Math (4)
GEOS101	Dynamic Earth (3)
	Core (3)
<b>TOTAL</b>	<b>16 sem. hrs.</b>
<b>Second Semester</b>	
ENGL102	Specialized College Writing and Research Skills (3)
BIOL102	Environmental Biology (3)
	Core (3)
	Core (3)
<b>TOTAL</b>	<b>12 sem. hrs.</b>
<b>Third Semester</b>	
GEOS112	Principles of Earth History (3)
GEOS310	Oceanography (3)
	Distribution (3)
	Core (3)
	Core (3)
<b>TOTAL</b>	<b>15 sem. hrs.</b>
<b>Fourth Semester</b>	
GEOS320	Meteorology I (3)
CHEM240	Principles of Chemistry I (4)
	Core (3)
	Core (3)
	Distribution (3)
<b>TOTAL</b>	<b>16 sem. hrs.</b>
<b>Fifth Semester</b>	
PHYS201	Physics (4)
PHYS271	Frontiers of Astronomy (3)
	Earth Science Elective (3)
	Free Elective (3)
	Distribution (3)
<b>TOTAL</b>	<b>16 sem. hrs.</b>
<b>Sixth Semester</b>	
	Earth Science Elective (3)
	Earth Science Elective (3)
	Free Elective(3)
	Free Elective (3)
	Free Elective (3)
<b>TOTAL</b>	<b>15 sem. hrs.</b>

**Seventh Semester**

Earth Science Elective (3)	
Earth Science Elective (3)	
Free Elective (3)	
Free Elective (3)	
Free Elective (3)	
<b>TOTAL</b>	<b>15 sem. hrs.</b>

**Eighth Semester**

Earth Science Elective (3)	
Free Elective (3)	
Free Elective (3)	
Free Elective (3)	
Free Elective (3)	
<b>TOTAL</b>	<b>15 sem. hrs.</b>

**Bachelor of Arts Degree****Geography**

The Geosciences Department offers three options for completing a Bachelor of Arts degree in Geography. Students may major in Geography with no declared concentration, or they may concentrate their coursework in either Environmental Studies or Urban & Regional Planning. All students completing a Bachelor of Arts degree in Geography must fulfill the requirements of the General Education Curriculum, and in addition complete six required geography courses that provide a common foundation for the discipline of geography. The foundational courses emphasize six essential elements identified in the National Geography Standards that a geographically-informed person needs to know and understand. The six essential geographic elements are: understanding the world in spatial terms, places and regions, physical systems, human systems, environment and society interactions, and use of geography in a wide range of applications.

The objectives of the Bachelor of Arts program in Geography are to:

1. acquire a core knowledge of human and physical systems and the natural world.
2. acquire a core knowledge of geospatial technologies and techniques, and the study of spatial phenomena.
3. develop and hone intellectual and practical skills necessary to succeed in geography and related fields.
4. develop capacity for integration and synthesis with respect to geographical opportunities and problems.
5. provide a liberal arts education that will make the student a better citizen.

**General Geography** provides the student with a broad understanding of geographical thought and practice. The Geography degree is a liberal arts degree that prepares the student for a wide variety of career opportunities as well as for graduate studies. In addition to six foundational geography courses, a student selects at least 21 additional credit hours of geography courses. The Geography curriculum is further refined in consultation with his/her department advisor by selecting an additional 33 credit hours of free electives from courses offered throughout the university. Geography majors are encouraged to elect a foreign language in fulfillment of related requirements, and are strongly encouraged to concentrate elective courses in an appropriate minor.

**Concentration in Environmental Studies** is designed to promote competencies required to work with environmentally sensitive issues. Students will be exposed to a natural science background sufficient to make them conversant on the fundamental scientific issues involved in a given controversy. Social science skills in planning and human interaction are also emphasized. Students further refine their course of study in consultation with the department advisor by selecting 26

additional credit hours of free electives. This provides flexibility for students to pursue additional courses in the physical sciences, social sciences, humanities, or computer sciences according to his/her career interests. Students concentrating in environmental studies may find employment at all levels of government (local, state, federal) as well as in the private sector.

**Concentration in Urban and Regional Planning** prepares students for future employment in the government sectors, the private sector, and by non-government organizations (NGOs). Urban and regional planners develop long- and short-term plans for the use of land and the growth and revitalization of urban and rural communities. Students must become proficient in computer skills and will be introduced to a number of discipline-specific software applications. The curriculum requires students to complete courses in economics and government, since most planning jobs are associated with some level of government. The Planning concentration requires an additional 27 geography credit hours beyond the six foundational courses, and 21 credit hours of free electives from courses offered throughout the university that are selected in consultation with the department advisor. The U.S. Department of Labor has projected faster than average growth for planning fields through 2018 (Occupational Outlook Handbook, 2010-1011 Ed., *Urban and Regional Planners*). Some of these jobs require applicants to obtain graduate degrees, and the Concentration in Urban and Regional Planning would prepare students to pursue graduate-level work as well as for entry-level positions in the planning field.

- |  |                                |
|--|--------------------------------|
| I. General Education Requirements                                    | 42 sem. hrs.                   |
| II. Required Geography Courses                                       | 18 sem. hrs.                   |
| GEOG101  | World Geography (3) or         |
| GEOG 130   | Cultural Geography (3)         |
| GEOG305  | Basic Cartography (3)          |
| GEOG320  | Physical Geography (3)         |
| GEOG411  | Spatial Analysis (3)           |
| GEOG413  | Geog. Information Systems (3)  |
| GEOG415  | Seminar in Geography (3)       |
| III. General Geography (no concentration)                            | 24 sem. hrs.                   |
| GEOG260  | Geography of US and Canada (3) |
| <i>Select ONE of the following physical geography courses:</i>       |                                |
| GEOG222  | Climatology (3)                |
| GEOG425  | Geography of Water Res. (3)    |
| GEOG515  | Biogeography (3)               |
| GEOG545  | Environ. Planning (3)          |
| Or other approved physical geography course (3)                      |                                |
| <i>Select ONE of the following human geography courses:</i>          |                                |
| GEOG300  | Princ Urb/Reg Planning (3)     |
| GEOG332  | Political Geography (3)        |
| GEOG335  | Urban Geography (3)            |
| GEOG340  | Economic Geography (3)         |
| GEOG350  | Population Geography (3)       |
| Or other approved human geography course (3)                         |                                |
| <i>Select ONE of the following issue-oriented geography courses:</i> |                                |
| GEOG145  | Environmental Issues (3)       |
| GEOG230  | Societal Issues (3)            |
| GEOG245  | Conservation of Nat Res. (3)   |
| GEOG333  | Geog. of World Affairs (3)     |
| Or other approved issues-oriented geography course (3)               |                                |
| <i>Select ONE of the following regional geography courses:</i>       |                                |
| GEOG365  | Geog. of Latin America (3)     |
| GEOG370  | Geog. of Europe (3)            |
| GEOG375  | Geog. of Middle East (3)       |
| GEOG380  | Geog. of Africa (3)            |
| GEOG390  | Geog. of Asia (3)              |
| Or other approved regional geography course (3)                      |                                |

Select nine additional hours of (300+) geography coursework (9)

Select 36 hrs of Free Electives

IV. Environmental Studies Concentration 24 sem. hrs.

- GEOG145 Environmental Issues (3)
- GEOG245 Conservation of Nat. Res. (3)

Select TWO of the following courses:

- GEOG425 Geography of Water Res. (3)
- GEOG515 Biogeography (3)
- GEOG525 Forest Geog. & Con. (3)
- GEOG545 Environ. Planning (3)

Or other approved environmental geography course (3)

Select three additional hours of (200+) geography coursework (3)

Related Requirements

- CHEM140 General Chemistry (4)\*\*  
(fulfilled by Core 7)

- GEOS101 Dynamic Earth (3)

- GEOS320 Meteorology I (3)

Select ONE of the following:

- GEOS375 Environmental Geology (3)
- Other GEOS course numbered 311 or higher (3)

Select 35 hrs of Free Electives

V. Urban and Regional Planning Concentration 24 sem. hrs.

- GEOG245 Cons. Natural Res. (3)
- GEOG300 Princ. Urban/Reg. Plan. (3)
- GEOG335 Urban Geography (3)
- GEOG545 Environ. Planning (3)

Select ONE of the following human geography courses:

- GEOG332 Political Geography (3)
- GEOG340 Economic Geography (3)
- GEOG350 Population Geography (3)

Or other approved human geography course (3)

Select TWO of the following techniques courses:

- GEOG414 Remote Sensing (3)
- GEOG420 GIS Applic. Bus/Plan. (3)
- GEOG513 GIS II: Modeling (3)

Or other approved techniques course (3)

Select 6 additional hours of approved (300+) geography coursework

Related Requirements

- ECON 225 Macroeconomics (3)
- POLI 201 American Government (3) \*\*  
(fulfilled by Core 3)

- POLI 315 Amer. State & Local Govt. (3) \*\*\*  
(fulfilled by Dist. 2)

An approved 300+ course from a related discipline such as economics, political science, sociology, anthropology, or other approved discipline. (3)

Select 36 hrs of free electives

TOTAL (120 SH)

A grade of C or better is required for all courses in the major (excluding free electives) that possess a GEOG prefix.

At least 42 semester hours must consist of advanced coursework.

Geography majors are not permitted to count GEOG courses that are used to meet major requirements under General Education, except GEOG413 for computer competency, without written permission of their advisor.

**Bachelor of Arts– Geography  
(Suggested Eight Semester Sequence)**

**First Semester**

GEOG 101	World Geography or
GEOG 130	Cultural Geography (3)
ENGL 101	College Writing Skills (3)
	Issue-oriented Geography course (3)
	Core (3)
	Core (3)
TOTAL	15 sem. hrs.

**Second Semester**

ENGL 102	Specialized College Writing and
	Research Skills (3)
GEOG 260	Geog. of U.S. and Canada (3)
MATH 104	Finite Math (3) or higher
	Core (3)
	Core (3)
TOTAL	15 sem. hrs.

**Third Semester**

GEOG 305	Basic Cartography (3)
GEOG 320	Physical Geography (3)
	Core (3)
	Core (3)
	Core (3)
TOTAL	15 sem. hrs.

**Fourth Semester**

GEOG 413	Geographic Information Systems (3)
	Physical Geography Course (3)
	Distribution (3)
	Free Elective (3)
	Free Elective (3)
TOTAL	15 sem. hrs.

**Fifth Semester**

GEOG 411	Spatial Analysis (3)
	Human Geography course (3)
	Distribution (3)
	Free Elective (3)
	Free Elective (3)
TOTAL	15 sem. hrs.

**Sixth Semester**

Regional Geography Course (3)	
GEOG (300+) Elective (3)	
Distribution (3)	
Free Elective (3)	
Free Elective (3)	
TOTAL	15 sem. hrs.

**Seventh Semester**

GEOG (300+) Elective (3)	
Free Elective (3)	
Free Elective (3)	
Free Elective (3)	
Free Elective (3)	
TOTAL	15 sem. hrs.

**Eighth Semester**

GEOG415	Seminar in Geography (3)
GEOG(300+)	Elective (3)
	Free Elective (3)
	Free Elective (3)
	Free Elective (3)
TOTAL	15 sem. hrs.



**Bachelor of Arts – Geography (Environmental Studies Concentration)**  
**(Suggested Eight Semester Sequence)**
**First Semester**

GEOG101	World Geography or		
GEOG 130	Cultural Geography (3)		
GEOG145	Environmental Issues (3)		
ENGL101	College Writing Skills		
	Core (3)		
	Core (3)		
	<b>TOTAL</b>	<b>15 sem. hrs.</b>	

**Second Semester**

ENGL102	Specialized College Writing and		
	Research Skills (3)		
GEOG245	Conservation of Natural Resources (3)		
MATH104	Finite Math (3) or higher		
	Core (3)		
	Core (3)		
	<b>TOTAL</b>	<b>15 sem. hrs.</b>	

**Third Semester**

GEOS101	Dynamic Earth (3)		
GEOG305	Basic Cartography (3)		
	Core (3)		
	Core (3)		
	Free Elective (3)		
	<b>TOTAL</b>	<b>15 sem. hrs.</b>	

**Fourth Semester**

GEOG320	Physical Geography (3)		
GEOG413	Geographic Information Systems (3)		
CHEM140	General Chemistry (4)		
	Distribution (3)		
	Free Elective (3)		
	<b>TOTAL</b>	<b>16 sem. hrs.</b>	

**Fifth Semester**

GEOG411	Spatial Analysis (3)		
GEOS320	Meteorology I (3)		
	Distribution (3)		
	Free Elective (3)		
	Free Elective (3)		
	<b>TOTAL</b>	<b>15 sem. hrs.</b>	

**Sixth Semester**

	Select from either		
	GEOG 425, 515, 525, or 545 (3)		
GEOG (200+)	Elective (3)		
	Distribution (3)		
	Free Elective (3)		
	Free Elective (3)		
	<b>TOTAL</b>	<b>15 sem. hrs.</b>	

**Seventh Semester**

GEOS375	Environmental Geology or other		
	GEOS (311+) course (3)		
	Select from either		
	GEOG 425, 515, 525, or 545 (3)		
	Free Elective (3)		
	Free Elective (3)		
	Free Elective (3)		
	<b>TOTAL</b>	<b>15 sem. hrs.</b>	

**Eighth Semester**

GEOG415	Seminar in Geography (3)		
	Free Elective (3)		
	Free Elective (3)		
	Free Elective (3)		
	Free Elective (2)		
	<b>TOTAL</b>	<b>14 sem. hrs.</b>	

**Bachelor of Arts – Geography (Urban and Regional Planning Concentration)**  
**(Suggested Eight Semester Sequence)**
**First Semester**

GEOG101	World Geography or		
GEOG 130	Cultural Geography (3)		
ENGL101	College Writing Skills (3)		
	Core (3)		
	Core (3)		
	Core (3)		
	<b>TOTAL</b>	<b>15 sem. hrs.</b>	

**Second Semester**

GEOG245	Conservation of Natural Resources (3)		
ENGL102	College Writing and Research Skills (3)		
POLI201	American Govt. (3)		
MATH105	College Algebra (3)		
	Core (3)		
	<b>TOTAL</b>	<b>15 sem. hrs.</b>	

**Third Semester**

GEOG305	Basic Cartography (3)		
POLI315	American State and Local Govt. (3)		
	Human Geography Course (3)		
	Core (3)		
	Core (3)		
	<b>TOTAL</b>	<b>15 sem. hrs.</b>	

**Fourth Semester**

GEOG320	Physical Geography (3)		
GEOG413	Geographic Information Systems (3)		
ECON225	Macroeconomics (3)		
	Distribution (3)		
CSCI104	Essential Computing or Free Elective (3)		
	<b>TOTAL</b>	<b>15 sem. hrs.</b>	

**Fifth Semester**

GEOG300	Princ. Urban / Reg. Planning (3)		
GEOG411	Spatial Analysis (3)		
	Geography Techniques course (3)		
	Distribution (3)		
	Free Elective (3)		
	<b>TOTAL</b>	<b>15 sem. hrs.</b>	

**Sixth Semester**

GEOG335	Urban Geography (3)		
	Geog Techniques Course (3)		
	Free Elective (3)		
	Free Elective (3)		
	Free Elective (3)		
	<b>TOTAL</b>	<b>15 sem. hrs.</b>	

**Seventh Semester**

GEOG545	Environmental Planning (3)		
	Free Elective (3)		
	Free Elective (3)		
	Free Elective (3)		
	Free Elective (3)		
	<b>TOTAL</b>	<b>15 sem. hrs.</b>	

**Eighth Semester**

GEOG415	Seminar in Geography (3)		
	Free Elective (3)		
	Free Elective (3)		
	Free Elective (3)		
	Free Elective (3)		
	<b>TOTAL</b>	<b>15 sem. hrs.</b>	

## Bachelor of Science Degree

### Geology

The Bachelor of Science Degree in Geology permits a student to select a traditional program in Geology or to concentrate his/her studies in Environmental Geology.

The traditional undergraduate degree in geology provides a classical, broad-based exposure to geological disciplines and thus, prepares the graduate well for entry into a wide variety of geological careers and for graduate school. Graduates commonly find employment in geologic careers ranging from petroleum exploration to environmental geology (e.g. groundwater concerns) and, with advanced degrees, to academia. The Environmental Geology Concentration is tailored for those who wish to enter the environmental geology field. It prepares the graduate well for entry into a range of geological and environmental careers and for graduate school in these disciplines. Graduates commonly find employment in geologic aspects of groundwater supply, contamination and remediation, as well as soils, slope stability, and other environmental geology concerns.

The objectives of the Bachelor of Science program in Geology are to:

1. develop skills of analysis, synthesis, critical thinking, and problem solving – largely via scientific method.
  2. acquire a core of knowledge in geology and allied natural sciences.
  3. develop written and oral communication skills.
  4. become technologically proficient by using basic computer software (including GIS, for the Environmental Geology Concentration).
  5. develop expertise with field and laboratory equipment and techniques.
  6. provide students with an understanding of current social and ethical issues related to the environment.
- I. General Education Requirements 44 sem. hrs.
- II. Required Foundation Courses 28 sem. hrs\*
- |          |                            |
|----------|----------------------------|
| GEOS 101 | Dynamic Earth (3)          |
| GEOS 112 | Prin. of Earth History (3) |
| GEOS 525 | Field Studies (3)          |
| GEOS 531 | Structural Geology (4)     |
| GEOS 541 | Geomorphology (3)          |
| BIOL 102 | Environmental Biology**    |
| CHEM 240 | Prin. of Chemistry I (4)   |
| PHYS 201 | Physics I **               |
| MATH 211 | Ana. Geom. & Calc. I **    |
- Choose two of the following :*
- |          |                           |
|----------|---------------------------|
| CHEM 241 | Prin. of Chemistry II (4) |
| PHYS 202 | Physics II (4)            |
| MATH 212 | Ana. Geom. & Calc. II (4) |
- III. Geology (no concentration) 48 sem. hrs\*
- |          |                           |
|----------|---------------------------|
| GEOS 311 | Mineralogy (4)            |
| GEOS 513 | Petrology (4)             |
| GEOS 521 | Strat. and Sediment (4)   |
| GEOS 523 | Invert. Paleontology (4)  |
| GEOS 581 | Geology Field Camp ***(4) |
- Select 9 hrs of GEOS courses numbered 311 or above  
Select 19 hrs of free electives

IV. Environmental Geology Concentration	48 sem hrs*
GEOS 375	Environmental Geology (3)
GEOS 505	Soil Geomorphology (3)
GEOS 545	Hydrogeology (3)
GEOG 145	Environmental Issues **
GEOG 245	Con. of Nat. Res. **
GEOG 305	Cartography (3)
GEOG 413	Geog. Info. Systems (3) **
GEOG 545	Environmental Planning (3)
Select 12 hrs of GEOS courses numbered 311 or above	
Select 21 hrs of free electives:	
Total	120 SH

\*A grade of C or better is required for all GEOS courses (excluding free electives).

\*\*Courses that will fulfill general education requirements.

\*\*\* GEOS 581 is not offered at Edinboro University and must be taken at another institution approved by the Geosciences Department and transferred back to fulfill this requirement.

At least 42 semester credit hours must consist of advanced coursework.

### Bachelor of Science – Geology (Suggested Eight Semester Sequence)

#### First Semester

GEOS 101	Dynamic Earth (3)
ENGL 101	College Writing Skills (3)
MATH211	Analytic Geom & Calc (4) (or Math course identified by placement test)
	Core (3)
	Core (3)
TOTAL	16 sem. hrs.

#### Second Semester

ENGL 102	Specialized College Writing and Research Skills (3)
GEOS 112	Principles of Earth History (3)
CSCI 104	Essential Computing I (3) or Discipline-specific Computer Competency Course
	Core (3)
	Core (3)
TOTAL	15 sem. hrs.

#### Third Semester

BIOL 102	Environmental Biology (3) Core 7
GEOS 311	Mineralogy (4)
PHYS201	Physics I (4) Core 7
	Core (3)
TOTAL	14 sem. hrs.

#### Fourth Semester

GEOS 513	Petrology (4)
GEOS 541	Geomorphology (3)
	Core (3)
	Distribution (3)
	Free Elective (3)
TOTAL	16 sem. hrs.

#### Fifth Semester

GEOS 525	Field Studies (3)
GEOS 531	Structural Geology (4)
	Distribution (3)
	Free Elective (3)
TOTAL	14 sem. hrs.

**Sixth Semester**

CHEM 240 Principles of Chemistry I (4)		
GEOS 521	Strat. and Sediment. (4)	
GEOS 523	Invert. Paleontology (4)	
	Free Elective (3)	
	<b>TOTAL</b>	<b>15 sem. hrs.</b>

**Seventh Semester**

Choose one of the following: MATH 212, CHEM 241, or PHYS 202 (4)		
	GEOS (311+) Elective (3)	
	GEOS (311+) Elective (3)	
	Free Elective (3)	
	<b>TOTAL</b>	<b>13 sem. hrs.</b>

**Eighth Semester**

Choose one of the following: MATH 212, CHEM 241, or PHYS 202 (4)		
	GEOS (311+) Elective (3)	
	Free Elective (3)	
	Free Elective (3)	
	<b>TOTAL</b>	<b>13 sem. hrs.</b>

Note: It is recommended that GEOS 581 – Geology Field Camp be taken after completion of upper division courses which may be between the junior and senior years or after the completion of senior year coursework.

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**Bachelor of Science – Geology (Environmental Geology Concentration)**  
**(Suggested Eight Semester Sequence)**
**First Semester**

GEOS 101	Dynamic Earth (3)	
ENGL 101	College Writing Skills(3)	
MATH 211	Analytic Geom & Calc I (4) (or Math course identified by placement test)	
	GEOG 245	Conservation of Natural Resources (3)
		Core 3
		Core (3)
	<b>TOTAL</b>	<b>16 sem. hrs.</b>

**Second Semester**

GEOG145	Environmental Issues (3) Core 6	
ENGL 102	Specialized College Writing and Research Skills (3)	
	GEOS 112	Principles of Earth History (3)
		Core (3)
		Core (3)
	<b>TOTAL</b>	<b>15 sem. hrs.</b>

**Third Semester**

BIOL 102	Environmental Biology (3) Distribution 3	
GEOG 305	Cartography (3) Core 6	
GEOS 375	Environmental Geology (3)	
	Core (3)	
	Free Elective (3)	
	<b>TOTAL</b>	<b>15 sem. hrs.</b>

**Fourth Semester**

GEOG 413	Geographic Information Systems (3)	
GEOS 541	Geomorphology (3)	
	Core (3)	
	Distribution (3)	
	Free Elective (3)	
	<b>TOTAL</b>	<b>15 sem. hrs.</b>

**Fifth Semester**

PHYS 201 Physics I (4) Core 7		
GEOS 525	Field Studies (3)	
GEOS531	Structural Geology (4)	
	GEOS (311+) Elective (3)	
	<b>TOTAL</b>	<b>14 sem. hrs.</b>

**Sixth Semester**

CHEM 240 Principles of Chemistry I (4)		
GEOS 505	Soil Geomorphology (3)	
GEOS 545	Hydrogeology (3)	
	Free Elective (3)	
	<b>TOTAL</b>	<b>13 sem. hrs.</b>

**Seventh Semester**

Choose one of the following: MATH 212, CHEM 241, or PHYS 202 (4)		
	GEOG 545	Environmental Planning (3)
		GEOS (311+) Elective (3)
		Distribution (3)
		Free Elective (3)
	<b>TOTAL</b>	<b>16 sem. hrs.</b>

**Eighth Semester**

Choose one of the following: MATH 212, CHEM 241, or PHYS 202 (4)		
		GEOS (311+) Elective (3)
		GEOS (311+) Elective (3)
		Free Elective (3)
		Free Elective (3)
	<b>TOTAL</b>	<b>16 sem. hrs.</b>

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## Mathematics and Computer Science Department

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FACULTY: Daniel M. Bennett, Patricia A. Hillman, John Hoggard, Korey Kilburn, Pamela Ruth Lasher, Frank J. Marzano, Timothy S. Meyer, Joseph M. Molnar, John Onderko, Douglas Puharic, Anne K. Quinn, Corinne Schaeffer, Emily Sprague, Marc A. Sylvester, David Tucker, Richard K. White, Ellen Marie Zimmer

The Department of Mathematics and Computer Science offers programs that lead to the following degrees: Bachelor of Science in Mathematics, Bachelor of Science in Mathematics with an Actuarial Concentration, Bachelor of Science in Computer Science, Bachelor of Science in Education-Area of Certification: Secondary Mathematics (refer to the Educational Services Department), and an Associate of Science in Computer Science.

The Department of Mathematics and Computer Science also offers a mathematics minor, a computer science minor, and an applied mathematics minor. These minors can be coordinated with virtually any academic discipline.

The Department of Mathematics and Computer Science develops the capacity of the student to analyze a variety of life situations modeling the problem environment with logical and numerical tools. As such, a strong foundation in mathematics and computer science becomes the basis for clear reasoning and problem solving in many other areas. Professionals in virtually all disciplines recognize the importance of mastering computer skills, developing problem-solving competence and studying mathematics. When students develop their abilities in mathematics and computer science they move from using the logical models proposed by others, to being able to create new approaches for the problems and technologies of tomorrow.

Course offerings include courses in algebra, analysis, statistics, geometry, programming languages, software design, database design and management, data structures, networking, artificial intelligence, operating systems, and computer architecture. The department also provides a variety of introductory courses from which students in any curriculum may select according to their needs and interests.

Opportunities available to graduates with a major in mathematics or computer science include graduate study and a wide variety of positions in business, education, government, and industry.

## Associate of Science Degree

### Computer Science

The Associate of Science degree in Computer Science is designed to prepare individuals to meet challenges in the rapidly growing and changing field of computer science. Within the framework of general education courses and courses in computer science, this degree will prepare the students for an entry level position in a computer field, provide appropriate background for further study in computer science and develop skills and attitudes necessary to become responsible employees and citizens.

The occupational activities of computer personnel are diverse. Our program of study enables the student to develop knowledge of computer equipment, software development, and principles of computer applications. Associate degree students are required to complete an internship in computer science.

Students completing this degree can move directly into a Bachelor of Science degree program in Computer Science if they so desire.

#### Program Objectives

Graduates of the Associate of Science in Computer Science will be able to:

- Apply the tools, theory and practices of computer science;
- Apply critical thinking, analytical and logical skills to solve problems;
- Possess the ability to communicate in a professional manner;
- Recognize and understand the professional, social and ethical responsibilities associated with computer science;
- Recognize the need for continuous learning;
- Possess specialized skills in one area of concentration within the program.

I. General Education Requirements		24 sem. hrs.
ENGL101College Writing Skills (3)		
ENGL102Specialized Writing/Research(3)		
MATH105College Algebra (3)		
CSCI125Intro to Computer Science (3)		
1 SH from Four of six of the following Core categories (21)		
Artistic Expression, World Civilizations, American Civilization, Human Behavior, Cultural Diversity/Social Pluralism, Ethics		
II. Required Computer Courses*		30 sem. hrs.
A. CSCI130 Principles of Programming I (3)		
CSCI207 Visual BASIC (3)		
CSCI230 Principles of Programming II (3)		
CSCI280 Principles of PC Desktop System Operation and Administration (3)		
CSCI313 Data Base Management Systems (3)		
B. Computer Science Electives (18)		
3-9 credits must be CSCI496		
15 credit hours must be 300 level or higher		
III. Required Mathematics*		6 sem. hrs.
	TOTAL	60 sem. hrs.

\*A grade of C or better must be obtained in all computer science and mathematics courses.

Note: At most 12 CSCI credits may be transferred into program.

## Bachelor of Science Degree

### Mathematics

The Bachelor of Science in Mathematics program is designed to:

- prepare the student for a professional career using mathematics;
- provide appropriate background for further study of mathematics;
- allow for extensive study in a closely related field;
- develop skills and attitudes for living in modern society.

#### Program Objectives

Students are given the opportunity to:

- learn basic mathematical concepts
- obtain basic manipulative skills
- learn how to logically approach problem solving
- learn how to logically approach mathematical proofs
- attain fluency with the language of mathematics
- explore pure mathematics
- explore applied mathematics
- explore the relation of mathematics to the real world
- become adept in using technology to solve mathematical problems
- attain adequate preparation for graduate study in mathematics or for a career in a related field

#### Graduates of the Bachelor of Science in Mathematics will be able to:

- Explain the fundamental concepts of real analysis with one variable, calculus of several variables and vector analysis, linear algebra and the theory of vector spaces, and probability and statistics;
- Demonstrate basic manipulative skills by using techniques of calculus of one and several variables, solving problems using differentiation and integration, and transforming and manipulating statements involving formulas and algorithms;
- Interpret and solve mathematical problems by selecting the appropriate mathematical tools, using technology when appropriate, and communicating the results in written and oral form;
- Demonstrate understanding of mathematical proof by applying the structure and results of existing proofs to establish new mathematical results, employing a variety of established logical techniques to write a mathematical proof, and distinguishing between valid and invalid (or incomplete) logical reasoning.

Students in the BSMA program may choose to become members of the Pi Mu Epsilon Honorary Mathematics Society and/or the Mathematical Association of America Student Chapter.

The BSMA program affords the student ample opportunity to obtain a minor offered by any other discipline at Edinboro University.

An option many students find attractive is to obtain the BSMA degree and at the same time become certified to teach mathematics. This leaves many career paths open, including that of teaching.

I.	General Education Requirements	42 sem. hrs.
A.	Skills	12 sem. hrs.
	ENGL101 College Writing (3)	
	ENGL102 Writing and Research (3)	
	MATH270 Discrete Math I (3)	
	CSCI104 Essential Computing I or Discipline specific Computer Competency Course (3)	
B.	Core	21 sem. hrs.
	Artistic Expression (3)	
	World Civilizations (3)	
	American Civilizations (3)	
	Human Behavior (3)	
	Cultural Diversity and Social Pluralism (3)	
	Ethics (3)	
	Natural Science (3)	
C.	Distribution	9 sem. hrs.
	Humanities and Fine Arts (3)	
	Social and Behavioral Sciences (3)	
	Sciences and Mathematics:	
	CSCI130 Principles of Programming I (3)	
II.	Specialization*	42 sem. hrs.
A.	Required Mathematics**	31 sem. hrs.
	MATH211 Analytic Geometry and Calculus I (4)	
	MATH212 Analytic Geometry and Calculus II (4)	
	MATH275 Linear Algebra I (3)	
	MATH290 Foundations of Mathematical Proof (3)	
	MATH311 Analytic Geometry and Calculus III (4)	
	MATH350 Math Prob/Stat (3)	
	MATH370 Discrete Mathematics II (3)	
	MATH411 Introduction to Analysis (3)	
	MATH421 Abstract Algebra (3)	
	MATH480 Mathematics Seminar (1)	
B.	Mathematics Electives	11 sem. hrs.
	Courses used to satisfy this requirement must be approved by the student's advisor and selected from the following: Any MATH course numbered 301 or above, except MATH403, MATH404 (Internship may not fulfill this requirement.)	
	BAMA majors seeking certification in secondary mathematics may count MATH403 and MATH404 as mathematics electives.	
III.	Free Electives***	36 sem. hrs.
	TOTAL	120 sem. hrs.

\*\*A grade of C or better is required for any mathematics course numbered 200 or higher. In order to take a given class, students must receive a grade of C or better in all of its prerequisite mathematics courses.

\*\*\*Students are encouraged to select an appropriate minor. Students must also take at least 10 hours of courses numbered 300 or above, besides those already specified above.

\*\*\*\*Students will be limited to three attempts at any given major course.

## BACHELOR OF SCIENCE – MATHEMATICS (Suggested Eight-Semester Sequence)

### First Semester

ENGL101	College Writing Skills (3)	
MATH211	Analytic Geometry/Calculus I (4)	
CSCI104	Essentials of Computer I or Discipline specific Computer Competency Course (3)	
	Core (6)	
	TOTAL	16 sem. hrs.

### Second Semester

ENGL102	Specialized College Writing and Research Skills (3)	
MATH212	Analytic Geometry/Calculus II (4)	
MATH275	Linear Algebra I (3)	
	Core (6)	
	TOTAL	16 sem. hrs.

### Third Semester

MATH311	Analytic Geometry/Calculus III (4)	
MATH270	Discrete Mathematics I (3)	
	Core (9)	
	TOTAL	16 sem. hrs.

### Fourth Semester

MATH290	Foundations of Mathematical Proof (3)	
MATH370	Discrete Mathematics II (3)	
CSCI130	Principles of Programming (3)	
	Distribution (3)	
	Electives (3)	
	TOTAL	15 sem. hrs.

### Fifth Semester

MATH350	Math Prob/Stat (3)	
	Math Elective (3)	
	Distribution (3)	
	Electives (6)	
	TOTAL	15 sem. hrs.

### Sixth Semester

MATH421	Abstract Algebra (3)	
	Math Elective (3)	
	Electives (9)	
	TOTAL	15 sem. hrs.

### Seventh Semester

MATH411	Introduction to Analysis (3)	
MATH480	Seminar (1)	
	Electives (9)	
	TOTAL	13 sem. hrs.

### Eighth Semester

	Math Electives (5)	
	Electives (9)	
	TOTAL	14 sem. hrs.

## Bachelor of Science Degree

### Mathematics with an Actuarial Concentration

The Bachelor of Science in Mathematics with an Actuarial Concentration is designed to:

- prepare the student for a professional career as a mathematician or an actuary;
- provide appropriate background for further study in mathematics;
- develop an ability to think abstractly and analytically;
- allow for extensive study in a closely related field;
- develop skills and attitudes appropriate for coping with a modern technical society.

PROGRAM OBJECTIVES: Students in the BSMA program shall:

- learn basic mathematical concepts;
- obtain manipulative skills;
- learn how to logically approach problem solving;
- learn how to logically approach mathematical proofs;
- attain fluency with the language of mathematics;
- explore pure mathematics;

- explore applied mathematics;
- explore the relation of mathematics to the real world;
- become adept in using technology to solve mathematical problems;
- attain adequate preparation for graduate study in mathematics or a career in a related field.

For the Actuarial Science Concentrations, in addition, graduates will be able to:

- Gain an understanding of interest theory, annuities, discounts, and funds from a mathematical and financial viewpoint;
- Apply statistical models for description, prediction, and inference based on data samples;
- Attain an understanding of the fundamental factors which influence the economy in the context of micro and macro-economics.
- Prepare for professional examinations through the Society of Actuaries and the Casualty Actuarial Society;
- Gain an understanding of professional opportunities and responsibilities of the future actuary.

I.	General Education Requirements	42 sem. hrs.
A.	Skills	12 sem. hrs.
	ENGL101 College Writing (3)	
	ENGL102 Writing and Research (3)	
	MATH270 Discrete Mathematics I (3)	
	Computer Competency (3)	
B.	Core	21 sem. hrs.
	Artistic Expression (3)	
	World Civilizations (3)	
	American Civilizations (3)	
	Human Behavior (3)	
	Cultural Diversity and Social Pluralism (3)	
	Ethics (3)	
	Natural Science (3)	
C.	Distribution	9 sem. hrs.
	Humanities and Fine Arts (3)	
	Social and Behavioral Sciences:	
	ECON220 Microeconomics (3)	
	Science and Mathematics – outside of mathematics:	
	CSCI130 Principles of Programming I (3)	
II.	Specialization*	51 sem. hrs.
A.	Required Mathematics**	30 sem. hrs.
	MATH211 Analytical Geometry and Calculus I (4)	
	MATH212 Analytical Geometry and Calculus II (4)	
	MATH275 Linear Algebra I (3)	
	MATH290 Foundations of Mathematical Proof (3)	
	MATH311 Analytical Geometry and Calculus III (4)	
	MATH350 Mathematical Prob/Stat (3)	
	MATH360 Statistical Inference (3)	
	MATH380 Introduction to Actuarial Science (2)	
	MATH411 Introduction to Analysis	
	MATH480 Mathematics Seminar (1)	
B.	Mathematics Electives	9 sem. hrs.
	<b>Courses used to satisfy this requirement should be chosen from:</b>	
	MATH317 Differential Equations	
	MATH370 Discrete Mathematics II	
	MATH430 Applied Numerical Methods I	
	MATH431 Applied Numerical Methods II	
	MATH465 A Survey of Mathematical Modeling	
	MATH475 Linear Algebra II	
	ECON420 Econometrics	

C.	Required Business Courses	12 sem. hrs.
	ACCT215 Accounting I (3)	
	ACCT220 Accounting II (3)	
	FIN300 Business Finance I (3)	
	ECON225 Principles of Macroeconomics (3)	
III.	Free Electives***	27 sem. hrs.
	<b>TOTAL</b>	<b>120 sem. hrs.</b>

\*\*A grade of C or better is required for any mathematics course numbered 200 or higher. In order to take a given class, students must receive a grade of C or better in all of its prerequisite mathematics courses.

\*\*\*Students are encouraged to pursue an internship or a minor within their free electives.

\*\*\*\*Students will be limited to three attempts at any given major course.

Note: At most, 18 mathematics semester hours may be transferred into this degree program.

**BACHELOR OF ARTS – MATHEMATICS WITH ACTUARIAL CONCENTRATION (Suggested Eight-Semester Sequence)**

<b>First Semester</b>	ENGL101 College Writing Skills (3)	
	MATH211 Analytic Geometry and Calculus I (4)	
	CSCI104 Essential Computing I (3) or Discipline specific Computer Competency Course Core (6)	
	<b>TOTAL</b>	<b>16 sem. hrs.</b>
<b>Second Semester</b>	ENGL102 Specialized College Writing and Research Skills (3)	
	CSCI130 Principles of Programming I (3)	
	MATH212 Analytic Geometry and Calculus II (4)	
	<b>TOTAL</b>	<b>16 sem. hrs.</b>
<b>Third Semester</b>	MATH270 Discrete Mathematics (3)	
	MATH311 Analytic Geometry and Calculus III (4)	
	ACCT215 Accounting I (3)	
	ECON225 (Gen Ed) Principles of Macroeconomics (3) Distribution 2 Core (3)	
	<b>TOTAL</b>	<b>16 sem. hrs.</b>
<b>Fourth Semester</b>	MATH275 Linear Algebra I (3)	
	MATH290 Foundations of Mathematical Proof (3)	
	ACCT220 Accounting II (3)	
	ECON220 (Gen Ed) Principles of Microeconomics (3) Core (3)	
	<b>TOTAL</b>	<b>15 sem. hrs.</b>
<b>Fifth Semester</b>	MATH350 Mathematical Prob/Stat (3)	
	FIN300 Business Finance I (3)	
	General Education (6)	
	Math Elective (3)*	
	<b>TOTAL</b>	<b>15 sem. hrs.</b>
<b>Sixth Semester</b>	MATH360 Statistical Inference (3)	
	MATH380 Intro to Actuarial Science (2)	
	Math Elective (3)*	
	Electives (6)	
	<b>TOTAL</b>	<b>14 sem. hrs.</b>

**Seventh Semester**

MATH411	Intro to Analysis (3)	
MATH480	Mathematics Seminar (1)	
	Electives (9)	
	<b>TOTAL</b>	<b>13 sem. hrs.</b>

**Eighth Semester**

	Math Elective (3)*	
	Electives (12)	
	<b>TOTAL</b>	<b>15 sem. hrs.</b>

\*NOTE: Students are required to take three math electives from the following list: MATH317, MATH370, MATH417, MATH430, MATH431, MATH465, MATH475, ECON420

**Bachelor of Science Degree****Computer Science**

Computers and computer software now occupy a central role in nearly every profession and discipline. Computers run assembly lines, model business activities, access national databases, and connect the world via networks. Employment opportunities are limitless for those who are able to harness and expand the computer's potential.

The Bachelor of Science degree in Computer Science has an Applied track, Web Development and Implementation track, Network and System Administration track, Game & Virtual World Development track, and Theoretical track. All tracks are designed around national curriculum models and employment opportunities. The theoretical track is ABET accredited, designed around the admissions requirements to graduate programs in computer science.

Computer science majors have the opportunity to participate in internship programs that give them a realistic view of employment directions. Current internship partnerships and coops exist with, National Laboratories, Erie Insurance, Community Resources for Independence as well as other numerous local businesses.

Computer science students have access to a variety of campus computer labs. The department sponsors a computer club, Game Development club, open to all interested students, and a programming team that competes multiple times per semester at the state level and national levels.

**Program Objectives**

Graduates of the Bachelor of Science Degree in Computer Science will be able to:

- Apply the tools, theory and practices of computer science;
- Apply critical thinking, analytical and logical skills to solve problems;
- Possess the ability to communicate in a professional manner;
- Recognize and understand the professional, social and ethical responsibilities associated with computer science;
- Recognize the need for continuous learning.

**APPLIED Track**

I. General Education Component		42 sem. hrs.
A. Skills		12 sem. hrs.
	ENGL101	College Writing Skills (3)
	ENGL102	Writing/Research (3)
	MATH105	College
	CSCI125	Introduction to Computer Science (3)

B. Core		21 sem. hrs.
	Artistic Expression (3)	
	World Civilizations (3)	
	American Civilizations (3)	
	Human Behavior (3)	
	Cultural Diversity and Social Pluralism (3)	
	Ethics (3)	
	Natural Science (3)	
C. Distribution		9 sem. hrs.
	Humanities and Fine Arts (3)	
	Social and Behavioral Sciences	
	Science and Mathematics – outside of mathematics (3)	
	MATH275	Linear Algebra I (3)
II. Specialization: Computer Science*		51 sem. hrs.
A. Required Courses		15 sem. hrs.
	CSCI130	Principles of Programming I (3)
	CSCI230	Principles of Programming II (3)
	CSCI312	Computer Architecture (3)
	CSCI330	Object Oriented Programming (3)
	CSCI385	Data Structures and Algorithms (3)
B. Computer Science Concentration		6 sem. hrs.
	CSCI313	Data Base Management (3)
	CSCI408	Software Engineering (3)
C. Computer Science Elective		30 sem. hrs.
	3 to 9 credits must be CSCI496	
	24 credit hours must be 300 level or higher	
III. Required Mathematics *		9 sem. hrs.
	MATH208	Essentials of Calculus (3)
	MATH270	Discrete Mathematics I (3)
	MATH300	App. Stats/Data Analysis (3)
IV. Free Electives		18 sem. hrs.
V. TOTAL		120 sem. hrs.

\*A grade of C or better must be obtained in all computer science and mathematics courses.

NOTE: At least 42 credits must consist of advanced coursework.

At most 12 CSCI credits may be transferred into program.

**GAME & VIRTUAL WORLD DEVELOPMENT Track**

I. General Education Component		44 sem. hrs.
A. Skills		13 sem. hrs.
	ENGL101	College Writing Skills (3)
	ENGL102	Writing/Research (3)
	MATH107	Precalculus (4)
	CSCI125	Introduction to Computer Science (3)
B. Core		22 sem. hrs.
	Artistic Expression (3)	
	World Civilizations (3)	
	American Civilizations (3)	
	Human Behavior (3)	
	Cultural Diversity and Social Pluralism (3)	
	Ethics (3)	
	Natural Science	
	PHYS201	Physics I (4)
C. Distribution		9 sem. hrs.
	Humanities and Fine Arts (3)	
	Social and Behavioral Sciences	
	Science and Mathematics – outside of mathematics (3)	
	MATH275	Linear Algebra I

II. Specialization: Computer Science*	34 sem. hrs.
A. Computer Science Core	15 sem. hrs.
CSCI130	Principles of Programming I (3)
CSCI230	Principles of Programming II (3)
CSCI312	Computer Architecture (3)
CSCI330	Object Oriented Programming (3)
CSCI385	Data Structures and Analysis of Algorithms (3)
B. Computer Science Concentration	15 sem. hrs.
CSCI340	Game Programming (3)
CSCI360	Intro to Graphics (3)
CSCI370	Artificial Intelligence (3)
CSCI440	Game Design and Development (3)
CSCI485	Senior Project in Game (3)
C. Computer Science Electives	4 sem. hrs.
3 to 4 credits can be CSCI496	
All credits must be 300 level or higher	
III. Required Mathematics Component*	14 sem. hrs.
MATH211	Analytic Geometry and Calculus I (4)
MATH212	Analytic Geometry and Calculus II (4)
MATH270	Discrete I (3)
MATH300	App Stats/Data Analysis (3)
IV. Required Art	12 sem hrs.
ART102	Three-Dim Design (3)
ART268	Animation I (3)
ART249	Computer Animation I (3)
Animation II (3)	
V. Free Electives	16 sem. hrs.
TOTAL	120 sem. hrs.

\*A grade of C or better must be obtained in all computer science and mathematics courses.  
 NOTE: At least 42 credits must consist of advanced course work  
 At most 12 CSCI credits may be transferred into program.

**NETWORK and SYSTEM ADMINISTRATION Track**

I. General Education Component	42 sem. hrs.
A. Skills	12 sem. hrs.
ENGL101	College Writing Skills (3)
ENGL102	Writing/Research (3)
MATH105	College Algebra (3)
CSCI125	Introduction to Computer Science (3)
B. Core	21 sem. hrs.
Artistic Expression (3)	
World Civilizations (3)	
American Civilizations (3)	
Human Behavior (3)	
Cultural Diversity and Social Pluralism (3)	
Ethics (3)	
Natural Science (3)	
C. Distribution	9 sem. hrs.
Humanities and Fine Arts (3)	
Social and Behavioral Sciences	
Science and Mathematics – outside of mathematics (3)	
MATH275	Linear Algebra I (3)
II. Specialization: Computer Science*	51 sem. hrs.
A. Computer Science Core	15 sem. hrs.
CSCI130	Principles of Programming I (3)
CSCI230	Principles of Programming II (3)
CSCI312	Computer Architecture (3)
CSCI330	Object Oriented Programming (3)
CSCI385	Data Structures and Algorithms (3)
B. Computer Science Concentration	18 sem. hrs.
CSCI280	PC System Op & Admin (3)
CSCI310	Script and Systems Programming (3)

CSCI313	Data Base Management (3)	
CSCI325	Web Server Administration (3)	
CSCI425	Network System Administration (3)	
CSCI475	Data Comm & Networking	
C. Computer Science Elective	18 sem. hrs.	
3 to 9 credits must be CSCI496		
15 credit hours must be 300 level or higher		
III. Required Mathematics *		9 sem. hrs.
MATH208	Essentials of Calculus (3)	
MATH270	Discrete Mathematics I (3)	
MATH300	App. Stats/Data Analysis (3)	
IV. Free Electives		18 sem. hrs.
TOTAL		120 sem. hrs.

\*A grade of C or better must be obtained in all computer science and mathematics courses.  
 NOTE: At least 42 credits must consist of advance coursework  
 At most 12 CSCI credits may be transferred into program.

**THEORETICAL Track**

I. General Education Component		43 sem. hrs.
A. Skills		13 sem. hrs.
ENGL101	College Writing Skills (3)	
ENGL102	Writing/Research (3)	
MATH107	Precalculus (4)	
CSCI125	Introduction to Computer Science (3)	
B. Core		21 sem. hrs.
Artistic Expression (3)		
World Civilizations (3)		
American Civilizations (3)		
Human Behavior (3)		
Cultural Diversity and Social Pluralism (3)		
Ethics (3)		
Natural Science (3)		
C. Distribution		9 sem. hrs.
Humanities and Fine Arts (3)		
Social and Behavioral Sciences		
Science and Mathematics		
MATH275	Linear Algebra I (3)	
II. Specialization: Computer Science*		39 sem. hrs.
A. Computer Science Core		15 sem. hrs.
CSCI130	Principles of Programming I (3)	
CSCI230	Principles of Programming II (3)	
CSCI312	Computer Architecture (3)	
CSCI330	Object Oriented Programming (3)	
CSCI385	Data Structures and Analysis of Algorithms (3)	
B. Computer Science Concentration		15 sem. hrs.
CSCI380	Operating Systems (3)	
CSCI408	Software Engineering (3)	
CSCI410	Programming Languages (3)	
CSCI475	Data Communication and Networking (3)	
CSCI480	Computer Science Seminar (3)	
C. Computer Science Electives		9 sem. hrs.
3 credits can be CSCI496		
All credits must be 300 level or higher		
III. Required Mathematics *		17 sem. hrs.
MATH211	Analytic Geometry and Calculus I (4)	
MATH212	Analytic Geometry and Calculus II (4)	
MATH270	Discrete I (3)	
MATH300	App. Stats/Data Analysis (3)	
MATH370	Discrete II (3)	
IV. Required Science		4 sem. hrs.
V. Free Electives		17 sem. hrs.
TOTAL		120 sem. hrs.



\*A grade of C or better must be obtained in all computer science and mathematics courses.

NOTE: At least 42 credits must consist of advanced coursework.

At most 12 CSCI credits may be transferred into program.

### WEB DEVELOPMENT and IMPLEMENTATION Track

I.	General Education Component		42 sem. hrs.
A.	Skills		12 sem. hrs.
	ENGL101	College Writing Skills (3)	
	ENGL102	Writing/Research (3)	
	MATH105	College Algebra (3)	
	CSCI125	Introduction to Computer Science (3)	
B.	Core		21 sem. hrs.
		Artistic Expression (3)	
		World Civilizations (3)	
		American Civilizations (3)	
		Human Behavior (3)	
		Cultural Diversity and Social Pluralism (3)	
		Ethics (3)	
		Natural Science (3)	
C.	Distribution		9 sem. hrs.
		Humanities and Fine Arts (3)	
		Social and Behavioral Sciences	
		Science and Mathematics – outside of mathematics (3)	
	MATH275	Linear Algebra I (3)	
II.	Specialization: Computer Science*		51 sem. hrs.
A.	Computer Science Core		15 sem. hrs.
	CSCI130	Principles of Programming I (3)	
	CSCI230	Principles of Programming II (3)	
	CSCI312	Computer Architecture (3)	
	CSCI330	Object Oriented Programming (3)	
	CSCI385	Data Structures and Algorithms (3)	
B.	Computer Science Concentration		18 sem. hrs.
	CSCI123	Intro to Web Deve (3)	
	CSCI280	PC System Op & Admin (3)	
	CSCI313	Data Base Management (3)	
	CSCI323	Web Development (3)	
	CSCI325	Web Server Administration (3)	
	CSCI423	Web Dev Engineering (3)	
C.	Computer Science Elective		18 sem. hrs.
		3 to 9 credits must be CSCI496	
		All credit hours must be 300 level or higher	
III.	Required Mathematics *		9 sem. hrs.
	MATH208	Essentials of Calculus (3)	
	MATH270	Discrete Mathematics I (3)	
	MATH300	App. Stats/Data Analysis (3)	
IV.	Free Electives		18 sem. hrs.
		TOTAL	120 sem. hrs.

\*A grade of C or better must be obtained in all computer science and mathematics courses.

NOTE: At least 42 credits must consist of advance coursework

At most 12 CSCI credits may be transferred into program.

## Bachelor of Science in Education Degree

### Secondary Education – Mathematics

Please refer to the Secondary Education Department section of this catalogue for information regarding this degree program with an area of certification of Secondary Mathematics.

## Nursing Department

FACULTY: Terri Astorino, Colleen Barrett, Dorothy Carlson, Dan Eaton, Lanette Erdman, Vicky Hedderick, Lisa Kruse, Debra J. Kubinski, Amy LeSuer, Lee Ann Leech, Susan Maloney, Amy McClune, Karen Morahan, Marijean Roussel-Dupre, Susan Sitter, Kimberly Streiff, Carolyn Tattersal, Amy Wechsler, Meagan White, Thomas White (Chair), Cathleen Wierzbowski

**The baccalaureate program in nursing is accredited by the  
Commission on Collegiate Nursing Education  
One Dupont Circle, NW, Suite 530  
Washington, DC 20036  
Telephone: 202-887-6791 or 202-887-8476  
webmaster@aacn.nche.edu**

The traditional baccalaureate degree program in nursing is developed within the general framework and policies of Edinboro University. It is a four-year program that combines professional nursing courses and clinical learning experiences with general education requirements. Upon successful completion of the program, the student receives a Bachelor of Science in Nursing (BSN) degree and is eligible to write the NCLEX Examination for licensure as a Registered Nurse, provided the State Board approves the student's application. Graduates of the program are prepared to function as professional nurses in a variety of health care settings. Conviction of a misdemeanor, felony, felonious act or illegal act associated with alcohol or illegal substances will require State Board review prior to eligibility to sit for the NCLEX.

Courses at the lower division level are selected to meet the general education requirements of the University and to provide the scientific base in the physical, biological, social, and psychological sciences necessary for understanding and competency in professional nursing practice. Nursing courses are structured to provide the sequential learning experiences for students perceived as essential to the development of a professional nurse.

During the sophomore, junior and senior years, clinical experiences are obtained in a variety of health care agencies in the Erie and Meadville areas. Attendance at all clinical experiences is mandatory.

### PHILOSOPHY OF THE BACCALAUREATE NURSING PROGRAM

The purpose of the Department of Nursing is to prepare professional nurses for entry level practice in a variety of healthcare settings. The faculty believe that preparation for professional nursing is the baccalaureate degree in nursing. Through a liberal and professional education, nurses acquire a foundation for the development of clinical judgment skills, professional values, and value-based behaviors. Behaviors such as caring, altruism, and integrity are central to the practice of professional nursing.

The faculty of the Department of Nursing incorporate the values and vision established by Edinboro University. Emphasis is placed on the development of excellence by the student as a holistic individual, a member of the nursing profession, and an effective citizen within a community and global perspective.

The faculty believes nursing is a profession based on the interrelationship of person, health, nurse and environment. The **PERSON** is perceived

as a unique, holistic being striving to achieve maturation and the self-realization of potential. A human being responds to experiences in ways that impact on his/her own internal and external environments and that affect the basic units of socialization, which are the family and community. A person possesses free will, the power to choose, and the ability to learn and reflect on oneself. As a person matures and develops in awareness, the exercise of these traits gives him/her relative control, accountability, and responsibility for the selection and achievement of personal outcomes.

**HEALTH** is a term describing the dynamic level of wholeness or integrity of human beings. It is a highly individualized perception, has culturally determined elements, and is evident in daily patterns of functioning. Health includes interpersonal and social coexistence with other persons. Health also encompasses well-being and is a state of integrated functioning that promotes human dignity within illness and disability.

**A NURSE** is a healthcare professional who identifies and treats human responses to health and illness through the application of scientific knowledge. Furthermore, a nurse, working in a professional capacity, maximizes the person's health potential. The nurse delivers care in all environments to individuals, families, groups, and communities as a provider, coordinator and designer/manager of care. In these roles, the nurse functions as patient advocate and educator for care provision, health promotion, and risk reduction. The nurse provides care to an increasingly diverse population across the life span. He/she is prepared to make and assist others in making ethical decisions within a professional framework. A nurse is educated to help all individuals and families make decisions within the end-of-life context of their values. Membership in the profession involves acquisition of an ethical framework, knowledge of political and regulatory processes defining healthcare delivery, and life-long learning.

**ENVIRONMENT** is the physical and psychosocial context in which human beings act and react. A person's environment consists of interacting physical, psychosocial, cultural, spiritual, interpersonal, and ethical components.

The additional components of core competencies (critical decision-making, communication, assessment and therapeutic nursing interventions) and core knowledge (health promotion, risk reduction and disease prevention, illness and disease management, rehabilitation, information and healthcare technologies, ethics, human diversity, global health care, and healthcare systems and policy) are also essential to the preparation of a professional nurse (adapted from Commission on Collegiate Nursing Education [CCNE]). With this educational preparation, the baccalaureate prepared nurse uses theory and research-based knowledge to provide direct and indirect care to individuals, families, groups, and communities; provide, coordinate and design/manage care, and function as a member of a profession.

The faculty believes that preparation for professional nursing is the baccalaureate degree in nursing. Prepared at the master's level, the family nurse practitioner functions in an expanded professional nursing role as a provider of primary health care.

### EXPECTED RESULTS OF THE BACCALAUREATE PROGRAM

At the completion of the program, the graduate will:

1. assume an entry level professional position with practice based on current knowledge, theory, and research from the humanities, nursing, social, behavioral, and physical sciences to contribute to the delivery of a seamless continuum of care.

2. provide comprehensive, individualized, culturally competent, and spiritually focused nursing care while fulfilling responsibilities inherent in the roles of provider, coordinator, and designer/manager of care.
3. communicate, collaborate, and facilitate as a member of the interdisciplinary team to effect positive change using creative problem solving approaches.
4. establish partnerships with patients in the development of plans of care that reflect personal values and beliefs, cultural practices, and the individual, family, group, and community's right to choose.
5. participate in evidence-based and research oriented practice utilizing current technology and information systems to achieve positive patient, family, groups, and community outcomes as a measure of the effectiveness and the value of nursing care.
6. utilize the nursing process as data gather, interpreter, and synthesizer to meet the healthcare needs of individuals, families, groups, and communities across the lifespan and within the context of a diverse local, national, and global perspective.
7. assume responsibility and accountability for nursing practice within the legal and ethical parameters established by professional organizations and regulatory agencies.
8. pursue personal and professional development through commitment to lifelong learning, participation in professional organizations, nursing research, and community service, and involvement in political processes and the advancement of healthcare policy using creative problem solving techniques.
9. role model leadership behaviors to advocate and negotiate for individuals, families, groups, and communities, especially those who are at risk and most vulnerable in order to impact the quality, accessibility, and cost of health care.

### ADDITIONAL COSTS

During the fall of the sophomore year uniforms and other accessories must be ordered. Nursing majors are responsible for securing their own transportation to agencies utilized in meeting course requirements. All sophomore, junior and senior nursing majors must have a complete physical examination, meet specific health requirements, and carry nursing liability insurance. Students may also incur cost related to ATI testing and skill module requirements.

### ADVANCED STANDING

According to University policy, advanced standing can be achieved by CLEP examinations, transfer credits and competency examinations. Non-nursing college courses taken at an accredited institution of higher learning will be accepted for transfer credits if a grade of C or higher was earned. Nursing college courses are not accepted for transfer credits. Students may challenge the following non-nursing courses.

PSYC101	Introduction to Psychology (3)
PSYC317	Developmental Psychology (3)
PSYC319	Psychology of Aging (3)
SOC100	Principles of Sociology (3)
BIOL104	Intro to Human Genetics (3)
BIOL312	Human Physiology and Anatomy 1 (4)
BIOL313	Human Physiology and Anatomy 2 (4)
BIOL318	Clinical Microbiology (4)
NUTR310	Nutrition (3)
CHEM140	General Chemistry (4)

34 sem. hrs.

Edinboro University offers three options to a BSN degree; the traditional four-year program for undergraduate students, the three-semester accelerated Innovative BSN program for baccalaureate students, and the RN-BSN on-line program for currently licensed professional RN's with RN diploma or ADN.

## Bachelor of Science in Nursing Degree (B.S.N.)

### Traditional Program

I.	General Education Requirements	43 sem. hrs.
A.	Skills	12 sem. hrs.
	ENGL101	College Writing Skills (3)
	ENGL102	Writing/Research (3)
	MATH260	Elements of Statistics (3)
	CSCI104	Essential Computing I (3) or Discipline specific Computer Competency Course
B.	Core	22 sem. hrs.
		Artistic Expression (3)
		World Civilizations (3)
		American Civilizations (3)
		Human Behavior
		PSYC101 Intro to Psychology (3)
		Cultural Diversity & Social Pluralism
	SOC100	Principles of Sociology (3)
		Ethics
	PHIL200	Intro to Philosophy (3)
		Natural Science
	CHEM140	General Chemistry (4)
C.	Distribution	9 sem. hrs.
		Humanities & Fine Arts (3)
		Social & Behavior Sciences
	PSYC317	Developmental Psychology (3)
		Science & Math
	BIOL306	Intro to Human Genetics (3)
II.	Required Nursing Courses	51 sem. hrs.
	NURS101	Intro to Nursing (1)
	NURS201	Nursing Assessment (3.5)
	NURS202	Fundamental Nursing Intervention (3.5)
	NURS301	Mat/ NB/ Fam-Cent. (3)
	NURS302	Ped and Fam-Centered Nursing (3)
	NURS303	Adult Health Nursing I (7)
	NURS305	Mat/Ped/Fam-Cent Clinical (2)
	NURS320	Pharm in Nursing (3)
	NURS400	Nursing Leadership (2)
	NURS401	Community Health Nursing (3)
	NURS402	Behavioral Health Nursing (3)
	NURS403	Adult Health Nursing II (8)
	NURS405	Comm/Behavioral Nursing (2)
	NURS415	Understanding Nursing Research (3)
	NURS435	Pathological Proc for Nursing (4)
III.	Required Supporting Courses	18 sem. hrs.
	BIOL312	Human Physiology/Anatomy I (4)
	BIOL313	Human Physiology/Anatomy II (4)
	BIOL318	Clinical Microbiology (4)
	NUTR310	Nutrition (3)
	PSYC319	Psych of Aging (3)
IV.	Free Electives	8 sem. hrs.
	<b>TOTAL</b>	<b>120 sem. hrs.</b>

#Note: At least 42 semester hours must consist of advanced coursework.

### PROGRAM OF STUDY (Suggested Sequence of Courses)

#### First Semester

ENGL101	College Writing Skills (3)
BIOL312	Human Physiology and Anatomy I (4)
CHEM140	General Chemistry (4)
PSYC101	Introduction to Psychology (3)
<b>TOTAL</b>	<b>14 sem. hrs.</b>

#### Second Semester

ENGL102	Specialized College Writing and Research Skills (3)
BIOL104	Intro Human Genetics (3)
BIOL313	Human Phys & Anatomy II (4)
NURS101	Intro to Nursing (1)
SOC100	Principles of Sociology (3)
<b>TOTAL</b>	<b>14 sem. hrs.</b>

#### Third Semester

BIOL318	Microbiology (4)
PSYC317	Developmental Psychology (3)
CSCI104	Essential Computing I or Discipline-specific Computer Competency Course (3)
NURS201	Nursing Assessment (3.5)
NURS435	Pathological Processes for Nurses (4)
<b>TOTAL</b>	<b>17.5 sem. hrs.</b>

#### Fourth Semester

NUTR310	Nutrition (3)
PSYC319	Psychology of Adulthood and Aging (3)
NURS202	Fundamental Nursing Interventions (3.5)
MATH260	Elements of Statistics (3)
CORE 6	Requirement (3)
<b>TOTAL</b>	<b>15.5 sem. hrs.</b>

#### Fifth Semester\*

NURS301	Mat/NB/Fam-Centered Nursing (3)
NURS302	Ped & Fam-Centered Nursing (3)
NURS305	Mat/NB/Fam/Centered (cl.) (2)
CORE	World Civ (3)
	Free Elective (3)
<b>TOTAL</b>	<b>14 sem. hrs.</b>

#### Sixth Semester\*

NURS303	Adult Health Nursing I (7)
NURS320	Pharmacotherapeutics for Nurses (3)
CORE	American Civ (3)
	Free Elective (3)
<b>TOTAL</b>	<b>16 sem. hrs.</b>

#### Seventh Semester\*

NURS400	Nursing Leadership (2)
NURS401	Community Health Nursing (3)
NURS402	Behavioral Health Nursing (3)
NURS405	Comm/Behav. Health Nursing (cl.) (2)
NURS415	Understanding Nursing Research (3)
<b>TOTAL</b>	<b>13 sem. hrs.</b>

#### Eighth Semester\*

NURS403	Adult Health Nursing II (8)
	Distribution: Humanities and Fine Arts (3)
	Free Electives (2) (strongly recommended: Nursing Elective Courses NURS and NUHL)
	Core Artistic Expression (3)
<b>TOTAL</b>	<b>16 sem. hrs.</b>

\*These semesters are interchangeable.

### ADMISSIONS REQUIREMENTS

#### Freshmen Students

- Total SAT scores of at least 1000 or ACT score of 21.
- Successful completion of chemistry, biology, geometry, and algebra I and II at the high school level.
- Upper 2/5ths of high school graduating class.

**PROGRESSION REQUIREMENTS FOR NURSING MAJORS**

In order to progress in the nursing program, students are required to meet the following requirements. (\*These requirements MUST be submitted by July 1<sup>st</sup> in order to attend any nursing courses with a clinical component.) Completion of all health requirements, proof of malpractice insurance, criminal history, child abuse clearance, and current CPR certification. In addition, the Program Progression and Academic Dismissal Policy and the Academic Integrity Policy outline the standards that are set for progression through the nursing curriculum and is published in the Undergraduate Student Handbook.

**Graduation requirements**

1. Completion of 120 semester hours.
2. Completion of the last 30 semester hours on the Edinboro University campus (residency requirement).
3. A grade point average of at least 2.75.

**Bachelor of Science in Nursing Degree (B.S.N.)**

**Innovative Program**

This program is designed for individuals with previous academic preparation to complete a Bachelor of Science in Nursing. Previous academic preparation for Innovative Program entry includes a 4-year degree in another field.

**Innovative Nursing Program**

The Innovative Nursing program is for individuals who already have a baccalaureate degree (in any area). All credits from the first baccalaureate degree are accepted as part of this program. Students, therefore, do not have to complete General Education requirements.

The program is completed in three academic semesters of full time study: fall semester, spring semester and fall semester. Students progress through the curriculum as a full-time cohort. Upon completion of the program, graduates receive a Bachelor of Science in Nursing (BSN) degree and are eligible to write the NCLEX Examination for licensure as a Registered Nurse.

The program is an intense version of the nursing courses offered in the regular four year baccalaureate program and students have comparable learning experiences in the classroom and the clinical settings. Students are expected to read extensively for background information and participate in independent learning experiences in the Nursing Labs.

The intensive learning experiences require a commitment on the part of the students. It is not recommended that students work while classes are in session.

I.	General Education Requirements and Required Supporting Courses – From first Baccalaureate Degree	
II.	Required Nursing Courses	43 sem. hrs.
	NURS320 Pharm in Nursing (3)	
	NURS400 Nursing Leadership (2)	
	NURS415 Understand Nurs Research (3)	
	NURS435 Pathological Process for Nurses (4)	
	NURS455 Fund of Nurs – Innov (7)	
	NURS461 Mat/New/Family – Innov (2)	
	NURS464 Pediatric & Family Nurs – Innov (2)	
	NURS465 Mat/Ped/& Family Centered Nursing – Innov (2)	
	NURS467 Adult Hlth Nurs I – Innov (7)	
	NURS468 Behavioral Health Nursing – Innov (2)	

	NURS471	Comm Hlth Nurs – Innov (4)	
	NURS474	Adult Health Nursing II – Innov (5)	
	NURS475	Comm & Behavioral Health Nursing – Innov (2)	
III.	Required Supporting Course		3 sem. hrs.
	NUTR310	Nutrition (3)	
		TOTAL	46 sem. hrs.

Note: All credits from the first baccalaureate degree are accepted as part of the Innovative Nursing Program.

**PROGRAM OF STUDY**

**Fall Semester**

NURS320	Pharmacotherapeutics (3)
NURS435	Pathophysiological Processes (4)
NURS455	Fundamentals of Nursing (7)
	Total 14 sem. hrs.

**Spring Semester**

NUTR310	Nutrition (3)
NURS461	Mat/Newborn/Family Centered Nursing – Innov. (2)
NURS464	Pediatric & Family Centered Nursing Innov. (2)
NURS465	Mat/Ped/ & Family Centered Nursing – Innov. (2)
NURS467	Adult Health Nursing I (4)
	Total 16 sem. hrs.

**Fall Semester**

NURS400	Nursing Leadership (2)
NURS415	Understanding Nursing Research (3)
NURS468	Behavioral Health Nursing – Innov. (2)
NURS471	Community Health Nursing – Innov. (2)
NURS474	Adult Health Nursing II (5)
NURS475	Comm Behavioral Health Nursing – Innov. (2)
	TOTAL 16 sem.hrs.
	TOTAL 46 sem.hrs.

**ADMISSION REQUIREMENTS**

1. Baccalaureate degree from a regionally accredited institution.
2. Grade point average of 2.75 upon completion of the first baccalaureate degree, with a preference for a 3.0 or higher.
3. Interview with Nursing faculty.
4. Successful completion of the following college level courses with a minimum grade of “C”: Human Anatomy and Physiology 1 and 2, with a lab  
Statistics Principles/elements course in chemistry with a lab.

**PROGRESSION REQUIREMENTS**

1. Maintenance of a 2.75 grade point average.
2. “C” or higher grade in all nursing courses.
3. In order to progress in the nursing program, students are required to meet the following requirements (\*These requirements MUST be submitted by JULY 1<sup>st</sup> in order to attend any nursing courses with a clinical component): completion of all health requirements, proof of malpractice insurance, criminal history, child abuse clearance, and current CPR certification. In addition, the Program Progression and Academic Dismissal Policy and the Academic Integrity Policy outlines the standards that are set for progression through the nursing curriculum and is published in the Undergraduate Student Handbook.

**GRADUATION REQUIREMENTS**

1. Completion of all nursing and related courses.
2. Minimum of 2.75 grade point average.

## Bachelor of Science in Nursing Degree (B.S.N.)

### RN - BSN Program

This program is designed for individuals who currently hold a license as a Registered Nurse (R.N.) and wish to pursue a baccalaureate degree in nursing. Previous academic preparation may include completion of an accredited Associate Degree Program in Nursing (ADN) or graduation from an accredited Diploma Nursing Program. This RN-BSN Nursing Program provides the necessary coursework for RNs who meet admission requirements to obtain a Bachelor of Science in Nursing (BSN) degree in three (3) academic semesters. This is a completely online program, and it is designed to be full-time study, although attendance on a part-time basis may be arranged. This program of study is heavily weighted in nursing courses that build on current nursing knowledge. Previous college courses are evaluated for transfer credit, and forty credits are awarded for previous nursing education and experience.

#### ADMISSION REQUIREMENTS

1. Graduation from an accredited Associate Degree in Nursing Program or a Diploma Nursing Program leading to licensure as a Registered Nurse (R.N.)
  - Graduation within three years from an accredited program
  - Graduation between three and ten years from an accredited program and have practiced for 1,000 hours as a licensed R.N. within the past three years
2. A current R.N. license
3. A minimum grade of "C" in all science admission prerequisite courses
4. Official copies of transcripts from nursing program(s), high school(s), and all post-secondary schools attended

#### PROGRESSION REQUIREMENTS

1. Completion of all prerequisite courses
2. A cumulative grade point average of 2.75 or above
3. A minimum "C" grade in all nursing and science courses
4. CPR certification, malpractice insurance, criminal history and child abuse clearance, and completion of all health requirements in compliance with healthcare agencies, when indicated

#### GRADUATION REQUIREMENTS

1. Completion of all courses in this program of study
2. Completion of 120 semester hours, including 30 credits of the last credits taken at Edinboro University
3. A cumulative grade point average of 2.75 or above

#### PREREQUISITE COURSES

BIOL312	Human Physiology & Anatomy I (4)
BIOL313	Human Physiology & Anatomy II (4)
BIOL308	Microbiology (4)
ENGL101	College Writing Skills (3)
MATH 260	Elements of Statistics (3)
PSYC101	Introduction to Psychology (3)
PSYC 317	Dev Psyc or PSYC 319 Psyc of Aging (3)
SOC 100	Principles of Sociology (3)
NUTR 310	Nutrition (3)
	Core 1 (3)
	Core 2 (3)
	Core 3 (3)
	<b>TOTAL</b> 39 credits

- Arrangements may be made to complete prerequisite courses following admission to this program

#### PROGRAM OF STUDY

##### First Year

##### Fall Semester

ENGL102	Spec College Writ/Research (3)
NURS406	Role of the Prof Nurse (3)
CSCI104	Essential Computing 1 or Discipline-specific Computer Competency Course (3)
BIOL104	Introduction to Human Genetics (3)
NURS407	Trends/Issues Prof Nursing (3)

##### Spring Semester

NURS 425	Critical Thinking in Nursing (2)
PSYC 332	Health Psychology (3)
NURS 408	Nursing Leadership/Management (3)
NUHL 425	Disaster Response and Recovery (3)
PHIL200	Intro to Philosophy & Values (3) or equivalent Core 6

##### Summer Semester

NURS409	Community Health Nursing (4)
NURS415	Understanding Nursing Research (3)
NUHL505	Gerontology and the Healthcare Professional (2)
COMM 230	Organizational Communication

Forty (40) credits for (NURS 202, 301, 302, 303, 320, 402, 403, 435) will be awarded following successful completion of NURS 409 as outlined in the PA Articulation Model.

Nursing Major (40 articulation)	58 sem. hrs.
Required supporting courses	19 sem. hrs.
General Education	43 sem. hrs.
	120 sem. hrs.

#### ADVANCED PLACEMENT FOR REGISTERED NURSES

Provision for registered nurse (RN) students to enter the baccalaureate program in nursing at Edinboro University is based on the Mission Statement of the University as well as the philosophy of the nursing faculty. Opportunity for educational mobility is also compatible with stances of the American Nurses' Association, National League for Nursing and the Commission on collegiate Nursing Education.

The faculty believes that RN's are motivated and bring previous education and experience as a foundation for baccalaureate education. Students are encouraged to capitalize on this motivation and background to achieve as much advanced standing as possible. Optimizing advanced standing permits the student greater freedom in the completion of non-nursing courses.

Credit is awarded to RN's who have graduated within the last three years from an accredited program or who have graduated between three and ten years from an accredited program and have worked 1,000 hours in nursing during the last three years. Credits awarded for articulation are considered transfer credits. Challenge exams courses taken at Edinboro are counted towards Edinboro University of Pennsylvania credit. Courses taken at Edinboro count toward the residency requirement that 30 of the last semester hours be completed in courses scheduled by Edinboro University. Transfer credits do not count toward those credits that fulfill the residency requirement.

#### BSN in Contemporary Nursing Issues for Foreign-Educated Nurses

The Nursing Department sees the institution of the BSN in Contemporary Nursing Issues for Foreign-Educated Nurses track as a way of addressing staffing problems currently being experienced by the U.S. health care system, while at the same time participating in the EUP mission of serving and leading as active citizens of our global society through collaborative learning. Through collaboration with foreign universities,

we hope to become internationally recognized for our innovation, leadership, and commitment to excellence in nursing education.

The BSN in Contemporary Nursing Issues for Foreign-Educated Nurses is for individuals who have already earned a BSN in their native country and have already passed the NCLEX-RN licensure exam. Students, therefore, do not have to complete General Education requirements. The program is designed to be completed in three semesters: spring, summer, and fall.

The program begins with an intense immersion into the English language, along with courses in Medical Terminology and Intercultural Communications to develop communication skills.

Nursing courses will teach students patient care as delivered in American health care systems. They will also be enrolled in classes with traditional four-year nursing students that will emphasize current issues in health care. These classes will give students the opportunity to exchange cultural practices that will promote diversity.

Upon completion of the program, these nurses will seek employment in and assimilate to the American health care system.

### PROGRAM OF STUDY

#### First Semester

ENGL120	Medical Terminology (3)	
COMM 220	Intercultural Communication (3)	
NURS 406	Role of the Professional Nurse (3)	
NURS 407	Trends and Issues in Professional Nursing (3)	
NUTR 310	Nutrition (3)	
	<b>TOTAL</b>	15 sem. hrs.

#### Second Semester

NURS320	Pharmacotherapeutics in Nursing (3)	
NUHL100	Contemporary Women's Health (3)	
NUHL 500	End-of Life Care (3)	
NURS 408	Nursing Leadership and Management (3)	
	<b>TOTAL</b>	12 sem. hrs.

#### Third Semester

COMM 320	Health Communications (3)	
COMM 409	Public Health Nursing (4)	
NURS 415	Understanding Nursing Research (3)	
NUHL 505	Gerontology and the Healthcare Professional (2)	
	<b>TOTAL</b>	12 sem. hrs.
	<b>TOTAL</b>	39 sem. hrs.

### ADMISSION REQUIREMENTS

1. Baccalaureate degree in nursing from a non-U.S. institution
2. Grade point average of 2.75 (or equivalent) from first baccalaureate degree
3. Chemistry with a lab and statistics at the college level with a minimum grade of "C".
4. Passed the NCLEX-RN licensure examination  
Transcripts will be screened to ensure that applicants meet or exceed the number of clinical hours required of traditional nursing students at Edinboro University.

### PROGRESSION REQUIREMENTS

1. Maintenance of a 2.75 grade point average
2. "C" or higher grade in all NURS and NUHL courses
3. CPR certification, proof of malpractice insurance, and completion of health requirements as required by public health agency

### GRADUATION REQUIREMENTS

1. Completion of all nursing and related courses.
2. Minimum of 2.75 grade point average.

## Physics and Technology Department

FACULTY: Karim Hossain, James R. Kirk, Peter Kuvshnikov, Richard J. Lloyd, David Wick

The Department of Physics and Technology offers instruction in astronomy, electronics, engineering, physics, and manufacturing engineering technology. Its offices, classrooms, laboratories and observatory are located in Hendricks Hall and Cooper Hall of Science. The department offers three degree programs and three academic minors.

1. The Bachelor of Science in Physics has three separate tracks:
  - a) The Theoretical Track is intended for those who wish to pursue graduate work in physics or closely related sciences following graduation or for those who would prefer to go directly into industry or business.
  - b) The Liberal Arts Track is offered for students who wish a very broad, extremely flexible program in the sciences and math which can be used in such areas as education, business, law, and medicine.
  - c) The 3/2 Engineering Track offers three years of study at Edinboro in basic science, math, and introductory engineering followed by two years of study at one of the cooperating universities (Penn State, University of Pittsburgh, Case Western Reserve University). The student receives both an Edinboro degree and an engineering degree from the cooperating university.
2. Research at Penn State University (University Park): Under a newly created innovative agreement between Penn State University and Edinboro University, students in the BA physics program at Edinboro are eligible, upon recommendation from the department, for summer research opportunities in engineering science and mechanics at Penn State University. These are paid positions intended to provide valuable experience for Edinboro students that may be interested in engineering science. The cooperative arrangement between the universities also allows for the possible transfer of up to six (6) credits from courses taken at Edinboro University toward a master's degree for participation in summer research.
3. The Bachelor of Science in Industrial Engineering Administration progresses students from engineering technology positions within a firm to positions that require analytical and financial decision-making for their employers. The program will prepare students for careers such as production team leaders, quality coordinators, new product development coordinators, production analysts, operations analysts, industrial sales specialists, among others.
4. The Bachelor of Science degree in Secondary Education leading to certification in Physics is offered by the Department of Middle & Secondary Education and Educational Leadership with the cooperation of the Department of Physics and Technology.
5. The Manufacturing Engineering Technology (MET) program is an Associate of Engineering Technology degree program that prepares the student for employment in a variety of manufacturing jobs.
6. The Associate of Applied Science in Applied Technology program is a two-year terminal degree. The program provides students who already possess technical training to acquire applied skills in quality control and technical reasoning. A background in basic business and economics is also a focus.

7. Students majoring in other areas may choose to complete an academic minor in Astronomy, Physics or Applied Physics.

Students choosing to major in the area of Physics will note that there is much similarity in the first several courses in Mathematics, Chemistry and Physics required in the various programs.

Students pursuing the Bachelor of Science degree in Physics are encouraged to elect a foreign language as part of their general education requirement.

Careful planning and consultation with academic advisors will often allow the choice of a specific program to be deferred into the sophomore year.

## Associate of Engineering Technology Degree

### Manufacturing Engineering Technology

Graduates of the Associate in Engineering Technology (Manufacturing Engineering Technology) will be able to:

- Develop a demonstrated skill in manual and CNC machining of engineering materials
- Be proficient in algebraic manipulations for engineering computations
- Test and evaluate the strength of various engineering materials used in manufacturing
- Develop proficiency using engineering design software
- Develop a special knowledge in one area of manufacturing

I. General Education Requirements		22 sem. hrs.
A. Skills		
ENGL101	College Writing Skills (3)	
MATH105	College Algebra (3)	
CSCI104	Essentials of Computing (3)	
B. Core		
PHYS201	Physics I (4)	
3 Core courses should be chosen from the remaining 6 Core categories in consultation with your advisor.		
II. Career Foundation		10 sem. hrs.
ENGR201	Engineering Graphics & Design (3)	
MATH106	Trigonometry (3)	
PHYS202	Physics II (4)	
III. Manufacturing Engineering Specialization		19 sem. hrs.
MFGT100	Manufacturing Processes (4)	
MFGT105	Engineering Materials (3)	
MFGT225	Statistics and Strengths of Materials (3)	
MFGT302	Computer Aided Drafting (3)	
MFGT309	Mold Design (3)*	
*Other MFGT design or elective course may substitute.		
III. MET Electives**		9 sem. hrs.
TOTAL		60 sem. hrs.

\*\*Select from MFGT215, MFGT306, MFGT310, MFGT311, MFGT315, MFGT320, MFGT365, MFGT370, MFGT375, MFGT404, MFGT405, MFGT410, MFGT420, MFGT435

## ASSOCIATE OF ENGINEERING TECHNOLOGY – MANUFACTURING ENGINEERING TECHNOLOGY (Suggested Four-Semester Sequence)

### First Semester

MFGT100	Manufacturing Processes (4)
MFGT105	Engineering Materials (3)
ENGR201	Engineering Graphics & Design (3)
MATH105	College Algebra (3)
	General Education core (3)
	TOTAL 16 sem. hrs.

### Second Semester

MFGT302	Computer Aided Drafting (3)
	MET Elective (3)
MATH106	Trigonometry (3)
ENGL101	College Writing Skills (3)
CSCI104	Essentials of Computing (3)
MFGT	Elective (3)
	TOTAL 15 sem. hrs.

### Third Semester

PHYS201	Physics I (4)
MFGT	Elective (3)
MFGT309	Mold Design (3)
	General Education Core (6)
	TOTAL 16 sem. hrs.

### Fourth Semester

PHYS202	Physics II (4)
MFGT 225	Statics and Strengths of Materials (3)
MFGT201	Quality Control (3)
MFGT	Elective (3)
	TOTAL 13 sem. hrs.

## ASSOCIATE OF APPLIED SCIENCE DEGREE APPLIED TECHNOLOGY

The Associates of Applied Science in Applied Technology combines training in specialized technology and business administration to prepare graduates for careers in engineering technology leadership. The A.A.S. program provides an opportunity for those with technical certification or training from other accredited institutions to complete a relevant associate degree, while the program is flexible enough to serve students that wish to complete all technical training at Edinboro University. This program will prepare students for occupations such as engineering technicians, industry team leaders, quality coordinators, new product development coordinators and sales specialists among others. The A.A.S. program will be attractive to students currently working in the manufacturing sector and to those pursuing certificate-level training in engineering technology at a university or other specialized training at community colleges or technical schools. Graduates of the Associate of Applied Science in Applied Technology will be able to:

- Satisfactorily complete a technical certification or previous degree program from an accredited institution
- To become proficient in analytical and quantitative computations appropriate to the occupational environment
- Develop communications skills appropriate to a technical setting
- Implement quality control principles to tasks involving basic engineering design
- Assess and operationalize a management and business plan in a technological environment

I. General Education Requirements	21 sem. hrs.
A. Skills	12 sem. hrs.
ENGL101	College Writing Skills
MATH104	(or higher) Finite Math or higher
CSCI104	Essential Computing I or Discipline-specific Computer Competency Course
COMM107	Public Speaking
B. Core	9 sem. hrs.
(Students must complete PHIL240 in Core 6. In addition, one Course is to be selected from two of the remaining 5 categories)	
1. Artistic Expression (3)	
2. World Civilization (3)	
3. American Civilizations (3)	
4. Human Behavior (3)	
5. Cultural Diversity & Social Pluralism (3)	
6. Ethics (3)	
PHIL 240	Intro to Moral Issues
II. Applied Technology Major	24-39 sem. hrs.
A. Applied Practice Courses	12 sem. hrs.
ECON220	Microeconomics (3)
BUAD160	Business in Society (3)
MFGT201	Intro to Quality Control (3)
PHYS181	Principles of Physics (3)
B. Applied Technical Field Training*	12-27 sem. hrs.
*A completed program of study from an accredited technical institute or a journeyman's certificate are awarded credit under ENGR 298.	
III. Free Electives	0-15 sem. hrs.
If free electives are needed, the following course is suggested	
MGMT260	Fund. Mgmt/Mktg (3)

### Associate of Applied Science (Suggested sequence)

#### First Semester

ENGL101	Writing Skills (3)	
MATH104	Finite Mathematics (3) or higher	
CSCI104	Essential Computing I (3) or Discipline-specific Computer Competency Course	
COMM107	Public Speaking (3)	
	Gen. Ed. Electives (6)	
	TOTAL	18 sem. hrs.

#### Second Semester

ECON 220	Microeconomics (3)	
BUAD 160	Business in Society (3)	
MFGT 201	Quality Control (3)	
PHYS 181	Principles of Physic (3)	
PHIL 240	Introduction to Moral Issues (3)	
	TOTAL	15 sem. hrs.

## Bachelor of Science Degree

### Physics

Graduates of the Bachelor of Science in Physics will be able to:

- Retain relevant information to be used throughout the curriculum;
- Develop a receptive attitude toward learning;
- Exhibit critical and creative thinking;
- Attain proficiency with practical scientific tools and skills;
- Recognize the need for continuous learning.

### Theoretical Track

I. General Education Requirements	46 sem. hrs.
This degree program contains a unique set of general education requirements. Students <u>must</u> consult with their academic advisors regarding the required general education program for this degree.	
II. Physics Requirements	42/43sem. hrs.
PHYS150	Physics Orientation (3)
PHYS305	Classical Physics Lab (2) <b>or</b>
PHYS405	Modern Physics Lab (2)
PHYS312	Technical Electronics II (4) <b>or</b>
PHYS313	Digital Electronics (3)
PHYS320	University Physics I (4)
PHYS321	University Physics II (4)
PHYS322	Physical Measurements I(1)
PHYS323	Physical Measurements II (1)
PHYS325	Introduction to Modern Physics (3)
ENGR303	Engineering Statics (3)
ENGR304	Engineering Dynamics (3)
PHYS420	Mechanics I (3)
PHYS430	Electricity and Magnetism I (3)
PHYS441	Thermal Physics (3)
PHYS453	Quantum Physics (3)
PHYS449	Mathematical Methods in Physics (3)
Advanced Physics Electives (6) – Choose from PHYS490-493, 496, 497, 410, 421, 431	
III. Advanced Physics Electives	3 sem. hrs.
PHYS410	Optics (3)
PHYS421	Mechanics II (3)
PHYS431	Electricity and Magnetism II (3)
PHYS490-493	Independent Study (2-5)
PHYS496-497	Internship in Physics (2-5)
IV. Required Supporting Courses	13sem. hrs.
MATH211	Analytical Geometry and Calculus I (4)
MATH212	Analytical Geometry and Calculus II (4)
MATH311	Analytical Geometry and Calculus III (4)
MATH317	Introduction to Differential Equations (3)
CHEM240	Principles of Chemistry I (4)
CHEM241	Principles of Chemistry II (4)
CSCI130	Principles of Programming (3)
V. Free electives to total	120 semester hours

### BACHELOR OF SCIENCE – PHYSICS/THEORETICAL TRACK

#### (Suggested Eight-Semester Sequence)

#### First Semester

PHYS150	Physics Orientation (3)	
ENGL101	College Writing Skills (3)	
	General Education Electives (9)	
	TOTAL	15 sem. hrs.

#### Second Semester

PHYS320	University Physics I (4)	
MATH211	Calculus I (4)	
ENGL102	Specialized College Writing and Research Skills (3)	
PHYS322	Physical Measurements Lab I (1)	
	General Education Core (3)	
	TOTAL	15 sem. hrs.

#### Third Semester

PHYS321	University Physics II (4)	
MATH212	Calculus II (4)	
ENGR303	Engineering Statics (3)	
PHYS323	Physical Measurements Lab II (1)	
CSCI130	Principles of Programming I (3)	
	TOTAL	15 sem. hrs.



**Fourth Semester**

PHYS325	Modern Physics (3)	
MATH311	Calculus III (4)	
ENGR304	Engineering Dynamics (3)	
	General Education Core (6)	
	<b>TOTAL</b>	16 sem. hrs.

**Fifth Semester**

MATH317	Differential Equations (3)	
CHEM240	Principles of Chemistry I (4)	
PHYS430	Electricity & Magnetism I (3)	
PHYS441	Thermal Physics (3)	
	General Education Distribution (3)	
	<b>TOTAL</b>	16 sem. hrs.

**Sixth Semester**

PHYS449	Math. Methods of Phys. (3)	
CHEM241	Principles of Chemistry II (4)	
PHYS312	Technical Electronics II (4) OR	
PHYS313	Digital Electronics (3)	
	Free Elective (3)	
	<b>TOTAL</b>	13-14 sem. hrs.

**Seventh Semester**

	Advanced Physics Elective (3)	
	(To be chosen from: PHYS410,	
	PHYS421, PHYS431, PHYS490-493,	
	PHYS496, PHYS497)	
PHYS305	Classical Physics Laboratory I (2) OR	
PHYS405	Modern Physics Laboratory I (2)	
	Free electives (9)	
	<b>TOTAL</b>	14 sem. hrs.

**Eighth Semester**

	Advanced Physics Elective (3)	
	(To be chosen from: PHYS410,	
	PHYS421, PHYS431, PHYS490-493,	
	PHYS496, PHYS497)	
	General Education Distribution (3)	
PHYS453	Quantum Physics (3)	
	General Education Distribution (3)	
	Free Electives (6-7)	
	<b>TOTAL</b>	15 sem. hrs.

**Liberal Arts Track**

- I. General Education Requirements 46 sem. hrs.  
This degree program contains a unique set of general education requirements. Students must consult with their academic advisors regarding the required general education program for this degree.
- II. Required Physics Courses 22 sem. hrs.
- |                 |                                    |
|-----------------|------------------------------------|
| PHYS150         | Physics Orientation (3)            |
| PHYS305/404/405 | Adv. Lab II (2)                    |
| PHYS312         | Electronics (4)                    |
| PHYS320         | University Physics I (4)           |
| PHYS321         | University Physics II (4)          |
| PHYS322         | Physical Measurements I(1)         |
| PHYS323         | Physical Measurements II (1)       |
| PHYS325         | Introduction to Modern Physics (3) |
- III. Physics Electives 9 sem. hrs.  
Choose from the following:
- |             |                                     |
|-------------|-------------------------------------|
| PHYS410     | Optics (3)                          |
| PHYS420     | Mechanics I (3)                     |
| PHYS430     | Electricity and Magnetism I (3)     |
| PHYS441     | Thermal Physics (3)                 |
| PHYS449     | Mathematical Methods in Physics (3) |
| PHYS453     | Quantum Physics (3)                 |
| PHYS490-493 | Independent Study (2-5)             |
| PHYS496-497 | Internship in Physics (2-5)         |
- Other approved courses may be offered via ITV.

- IV. Required Supporting Courses 7 sem. hrs.
- |         |  |
|---------|--|
| MATH211 | Analytical Geometry and Calculus I (4)     |
| MATH212 | Analytical Geometry and Calculus II (4)    |
| MATH311 | Analytical Geometry and Calculus III (4)   |
| MATH317 | Introduction to Differential Equations (3) |
| CHEM240 | Principles of Chemistry I (4)*             |
| CHEM241 | Principles of Chemistry II (4)*            |
- Counted under General Education as cognates.

- V. Science and Math Electives 6 sem. hrs.  
VI. Free Electives 30 sem. hrs.

**BACHELOR OF SCIENCE – PHYSICS/LIBERAL ARTS TRACK****(Suggested Eight-Semester Sequence)****First Semester**

PHYS150	Physics Orientation (3)	
CSCI130	Principles of Programming (3)	
ENGL101	College Writing Skills (3)	
	General Education Core (6)	
	<b>TOTAL</b>	15 sem. hrs.

**Second Semester**

PHYS320	University Physics I (4)	
PHYS322	Physical Measurements Laboratory I (1)	
MATH211	Calculus I (4)	
ENGL102	Specialized College Writing and Research Skills (3)	
	General Education Core (3)	
	<b>TOTAL</b>	15 sem. hrs.

**Third Semester**

PHYS321	University Physics II (4)	
PHYS323	Physical Measurements Laboratory II (1)	
MATH212	Calculus II (4)	
	Free Elective (3)	
	General Education Core (3)	
	<b>TOTAL</b>	15 sem. hrs.

**Fourth Semester**

PHYS325	Modern Physics (3)	
MATH311	Calculus III (4)	
PHYS312	Electronics (4)	
	Select one of the following courses: PHYS305, PHYS404, PHYS405 Adv. Lab (2)	
	General Education Core (3)	
	<b>TOTAL</b>	16 sem. hrs.

**Fifth Semester**

MATH317	Introduction to Differential Equations (3)	
	Physics Elective (3)	
	General Education Core (3)	
	Free Elective (6)	
	<b>TOTAL</b>	15 sem. hrs.

**Sixth Semester**

	Physics Elective (3)	
	Science and Math Elective (3)	
	Free Electives (9)	
	<b>TOTAL</b>	15 sem. hrs.

**Seventh Semester**

CHEM241	Principles of Chemistry I (4)	
	Physics Elective (3)	
	Science and Math Elective (3)	
	General Education Distribution (3)	
	Free Elective (3)	
	<b>TOTAL</b>	16 sem. hrs.

**Eighth Semester**

CHEM241	Principles of Chemistry II (4)	
	General Education Distribution (3)	
	Free Electives (6)	
	<b>TOTAL</b>	13 sem. hrs.

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## Bachelor of Science in Education Degree

### Secondary Education – Physics

Please refer to the Secondary Education Department section for information regarding the Secondary Physics program.

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## Professional Engineering Degrees

### A Joint Program of Collegiate Education in the Liberal Arts and Engineering at Edinboro University and Cooperating Universities.

Edinboro University and the Colleges of Engineering and Earth and Mineral Sciences of The Pennsylvania State University, The Pennsylvania State University-Behrend College, Case Institute of Technology of Case Western Reserve University and the School of Engineering of the University of Pittsburgh have established cooperative educational programs in liberal arts and engineering. Three years or the equivalent will be spent by an enrolled student at Edinboro University where he/she will study liberal arts subjects along with basic mathematics, physics, chemistry and introductory engineering courses. After satisfactory completion of the Edinboro phase of the program and recommendation of the director of the 3/2 Engineering Program, he/she will spend two years or the equivalent at one of the cooperative universities, where he/she will complete the engineering course requirements as specified by that institution. Successful completion of this program will lead to an appropriate baccalaureate degree from each institution. Since the normal progression through the cooperative program will consist of 3 years of study at Edinboro and 2 years of study of the cooperating university, the program is called a 3/2 Program in Engineering. Case Western Reserve University refers to their program as a Binary Program, and allows transfer into curricula other than engineering. This cooperative program was created to fulfill the following objectives:

1. To provide cooperatively a combination of liberal arts education of mathematics, science, humanities and social sciences, followed by a professional orientation in engineering that provides the student a unique preparation for a career.
2. To allow a student whose choice of engineering as a career is not yet definite to measure his/her aptitudes and interests in fundamental courses in both the arts and the sciences.
3. To provide a student with a planned sequence of liberal arts courses which, if completed successfully, would gain him/her acceptance at an engineering school at times when applications to such schools might exceed their capacity.
4. To allow qualified students to receive both a liberal and technical education at relatively low costs; and, in doing so, provide the Commonwealth and the Nation with an ample number of well-educated engineers.

Counseling, admission and the transfer of students in this 3-2 cooperative program are implemented through the following procedures and policies:

1. Application for admission to the program will be made to Edinboro University where the candidate will be subject to the admission requirements of this institution.
2. A student will indicate his/her desire to follow the 3-2 program either at the time of his/her admission to Edinboro or early enough in his/her program to permit him/her to complete all required prerequisite courses. Results from aptitude and achievement tests, records of scholastic achievement, and other pertinent information will be exchanged between institutions to aid both in guiding and counseling students and prospective students.

3. At the beginning of the first semester of the third year, a student applies to the 3/2 program director at Edinboro for recommendation for transfer by Edinboro University of Pennsylvania. Recommendation by Edinboro University will be made on the basis of satisfactory progress through the Edinboro component of the program and anticipated quality grade point average required of the cooperating engineering institution. Case-Western Reserve University and the Pennsylvania State University require a 3.0 grade point average for transfer. Penn State-Behrend College requires a minimum grade point average of 2.7 for transfer. The University of Pittsburgh requires a minimum grade point average of 3.0 to be considered. It is possible that individual programs within each of these universities will require a higher grade point average than what is stated here.
4. The individual student should request an application from the 3/2 program director at Edinboro or directly from the Admissions Office of the cooperating university of his/her choice in September of his/her third year at Edinboro. The request from the cooperating university should include the statement that the application is for the 3-2 program. The application should be submitted promptly and no later than November 30.
5. All information and correspondence pertaining to student enrollment or transfer in the 3-2 program will be channeled through the offices of the institutional representatives of the two universities involved in each transaction.
6. A student who meets the requirements for one of the following engineering curricula, and is recommended and accepted for transfer, will be eligible to enter the cooperating engineering school with the equivalent of first semester junior standing. However, some engineering departments may require summer attendance prior to the students first fall term at the cooperating university. Finally, Pennsylvania State University has implemented enrollment control procedures that precludes transfer into some engineering fields. Students should check with their advisor on which majors are under enrollment control.

#### Pennsylvania State University

Aerospace\*\*  
 Biological Engineering  
 Bioengineering\*\*  
 Chemical\*\*  
 Civil\*\*  
 Computer+  
 Electrical+  
 Energy Engineering  
 Engineering Science\*  
 Environmental Systems  
 Industrial\*\*  
 Material Science  
 Mechanical+\*\*  
 Mining  
 Nuclear  
 Petroleum and Natural Gas  
 Polymer Science

#### Case-Western Reserve University

Applied Physics  
 Astronomy  
 Biomedical  
 Ceramics and Material Science  
 Chemical  
 Civil  
 Electrical  
 Fluid and Thermal  
 Mechanical and Aerospace  
 Polymer Science  
 Systems and Control

+Also available at Behrend College

\*Enrollment in the Engineering Science program is limited to those students who are specially chosen by the Pennsylvania State University faculty on the basis of evidence that they will profit from the advanced courses in this program.

\*\*These programs are under enrollment control at Penn State (Main campus). Students may still be considered for these programs if they seek regular transfer admission to Penn State after the first year at Edinboro University.

**University of Pittsburgh**

Bioengineering	Engineering Science (Engineering Physics, Nanotech w/Chem/Bio or Materials emphasis)
Chemical	Industrial
Civil and Environmental	Materials Science
Computer	Mechanical
Electrical	

7. An entering student at Edinboro who plans to follow the 3/2 Engineering Program will be enrolled in the Bachelor of Science Degree in Physics/Cooperative Engineering Track which will include the following course requirements to be taken at Edinboro University for transfer.

- I. General Education Requirements 40sem. hrs.  
The General Education requirements for all curricula at Edinboro University as well as the requirements of the cooperating universities for courses in the Arts, Humanities and Social Sciences may be met within the 6 semesters (or equivalent) period the student spends at Edinboro provided the student works closely with their academic advisor or the 3/2 program director. The cooperating universities will accept for transfer credit in the areas of Arts, Humanities and Social and Behavioral Sciences those courses which are non-professional to the engineer and are not considered basic skill courses. Additional requirements appropriate to specific cooperating universities are as listed.

**Case-Western Reserve University:** A minimum of 24 semester hours in the Arts, Humanities and Social Sciences.

**The Pennsylvania State University:** A minimum of 18 semester hours, 6 in the Arts, 6 in the Humanities and 6 in the Social and Behavioral Sciences. A minimum of two 6 credit sequences. A sequence is defined as a set of sequential courses in one discipline in which the first course is introductory and succeeding courses are more advanced. A 9 credit sequence in one discipline may replace the two 6 credit sequences.

**The University of Pittsburgh:** One course in English Literature and one course in Philosophy from an approved list. Please see the advisor.

- II. Required Courses 66 or 67 sem. hrs.
- |         |  |
|---------|--|
| MATH211 | Analytic Geometry and Calculus I (4)   |
| MATH212 | Analytic Geometry and Calculus II (4)  |
| MATH311 | Analytic Geometry and Calculus III (4) |
| MATH275 | Linear Algebra I (3)                   |
| MATH317 | Differential Equations (3)             |
| CSCI130 | Principles of Programming (3)*         |
| PHYS150 | Physics Orientation (3)                |
| PHYS312 | Technical Electronics II or            |
| PHYS313 | Digital Electronics (4 or 3)           |
| PHYS320 | University Physics I (4)               |
| PHYS321 | University Physics II (4)              |
| PHYS322 | Physical Measurements Lab I (1)        |
| PHYS323 | Physical Measurements Lab II (1)       |
| PHYS325 | Introduction to Modern Physics (3)     |
| PHYS449 | Mathematical Methods in Physics (3)    |
| CHEM240 | Principles of Chemistry I (4)          |
| CHEM241 | Principles of Chemistry II (4)         |
| ENGR201 | Engineering Graphics & Design (3)      |
| ENGR303 | Engineering Statics (3)                |
| ENGR304 | Engineering Dynamics (3)               |
| COMM107 | Public Speaking (3)                    |
| ECON225 | Macroeconomics (3) or                  |
| ECON220 | Microeconomics                         |

\* Other computer science courses dealing with languages suitable for engineering work may be substituted.

**Additional Specific Engineering Program Requirements**

Within each cooperating university, the degree requirements vary from one engineering field to another. In any one specific field of engineering, the program requirements will vary from one university to another. Due to the wide variety of engineering program options available, the Edinboro student should work closely with their academic advisor and the 3/2 program director to guarantee the suitability of all courses for their intended engineering major and cooperating university.

**3/2 Engineering Track**

- I. General Education Requirements 37 sem. hrs.  
This degree program contains a special set of general education requirements specific to the program. Students must consult with their academic advisors regarding the required general education program for this degree.
- II. Physics Requirements 36/37 sem. hrs.
- |         |                                     |
|---------|-------------------------------------|
| PHYS150 | Physics Orientation (3)             |
| PHYS320 | University Physics I (4)            |
| PHYS321 | University Physics II (4)           |
| PHYS322 | Physical Measurements I(1)          |
| PHYS323 | Physical Measurements II (1)        |
| PHYS325 | Introduction to Modern Physics (3)  |
| ENGR201 | Engineering Graphics (3)            |
| ENGR303 | Engineering Statics (3)             |
| ENGR304 | Engineering Dynamics (3)            |
| PHYS312 | Technical Electronics II (4) or     |
| PHYS313 | Digital Electronics (3)             |
| PHYS449 | Mathematical Methods in Physics (3) |

**Completion of Engineering Degree**

- III. Advanced Physics Electives 5 sem. hrs.  
Choose from the following:
- |             |                                  |
|-------------|----------------------------------|
| PHYS304/405 | Classical/Modern Physics Lab (2) |
| PHYS410     | Optics (3)                       |
| PHYS420/32  | Mechanics I/II (3)               |
| PHYS453     | Quantum Physics (3)              |
| PHYS490-493 | Independent Study (2-5)          |
| PHYS496-497 | Internship in Physics (2-5)      |
- IV. Required Supporting Courses 19sem. hrs.
- |         |  |
|---------|--|
| MATH211 | Analytical Geometry and Calculus I (4)     |
| MATH212 | Analytical Geometry and Calculus II (4)    |
| MATH311 | Analytical Geometry and Calculus III (4)   |
| MATH275 | Matrix Algebra (3)                         |
| MATH317 | Introduction to Differential Equations (3) |
| COMM107 | Fundamentals of Speech (3)                 |
| CHEM240 | Principles of Chemistry I (4)              |
| CHEM241 | Principles of Chemistry II (4)             |
| CSCI130 | Principles of Programming (3)              |
| ECON220 | Principles of Microeconomics (3)*          |
| ECON225 | Principles of Macroeconomics (3)           |
- \*Counted under General Education as cognates.
- V. Free Electives 3-4 sem. hrs.
- |       |              |
|-------|--------------|
| TOTAL | 96 sem. hrs. |
|-------|--------------|

**BACHELOR OF SCIENCE – PHYSICS/COOPERATIVE ENGINEERING TRACK  
(Suggested Six-Semester Sequence)****First Semester**

- |          |                            |
|----------|----------------------------|
| PHYS150  | Physics Orientation (3)    |
|          | Free Elective (3-4)        |
| COMM107  | Public Speaking (3)        |
| ENGL101  | College Writing Skills (3) |
| ENGR 201 | Engineering Graphics (3)   |

TOTAL 15-16 sem. hrs.

**Second Semester**

PHYS320	University Physics I (4)	
MATH211	Calculus I (4)	
PHYS322	Phys. Meas. Lab (1)	
ENGL102	Specialized College Writing and Research Skills (3)	
	General Education Core (3)	
	<b>TOTAL</b>	15 sem. hrs.

**Third Semester**

PHYS321	University Physics II (4)	
ENGR303	Engineering Statics (3)	
MATH212	Calculus II (4)	
	PHYS323	
	Physical Measurements Lab II (1)	
	General Education Core (6)	
	<b>TOTAL</b>	18 sem. hrs.

**Fourth Semester**

PHYS325	Modern Physics (3)	
MATH311	Calculus III (4)	
ENGR 304	Engineering Dynamics (3)	
PHYS312 or 313	Electronics (4 or 3)	
	General Education Core (3)	
	<b>TOTAL</b>	16 or 17 sem. hrs.

**Fifth Semester**

MATH317	Introduction to Differential Equations (3)	
MATH275	Linear Algebra (3)	
ECON225	Principles of Macroeconomics (3) OR	
ECON220	Principles of Microeconomics	
CHEM240	Principles of Chemistry I (4)	
	Advanced Physics Elective (2)	
	<b>TOTAL</b>	15 sem. hrs.

**Sixth Semester**

CHEM241	Principles of Chemistry II (4)	
PHYS449	Mathematical Methods in Physics (3)	
CSCI130	Principles of Programming I (3)	
	Free Elective (3)	
	Advanced Physics Elective (3)	
	<b>TOTAL</b>	16 sem. hrs.

**INDUSTRIAL ENGINEERING ADMINISTRATION PROGRAM**

This interdisciplinary program was developed jointly by the Department of Physics & Technology and the Department of Business & Economics in order to address industry needs. This curriculum will allow graduates to progress professionally from engineering technology positions within a firm to positions that require analytical and financial decision-making for their employers. The program will prepare students for careers such as production team leaders, quality coordinators, new product development coordinators, production analysts, operations analysts, industrial sales specialists, among others. The program is defined at the baccalaureate level and will be attractive to students currently working in the manufacturing sector and to those that are pursuing, or had previously completed, associate-level training in manufacturing engineering technology at Edinboro University or other specialized training at community colleges or technical schools.

The Engineering Technology Specialization area contains coursework related to new technological developments in industrial engineering technology with an emphasis in manufacturing technology. To provide flexibility for those already appropriately trained in engineering technology, the Specialization area can be satisfied with a journeyman's certificate in a manufacturing trade or an associate degree in engineering technology from an accredited institution. This flexibility allows those who desire a bachelor's degree to make use of their current expertise and training.

The Business Administration Requirements include a set of business courses selected in cooperation with industry partners to prepare graduates for positions in administrative leadership within the industrial sector. Emphasis is placed on the use of financial information for decision-making, management and marketing functions within an organization, and applied statistical methods for business.

Graduates of the Bachelor of Science in Industrial and Engineering Administration will be able to:

- Develop a demonstrated skill in manual and CNC machining of engineering materials
- Be proficient in algebraic manipulations for engineering computations
- Test and evaluate the strength of various engineering materials used in manufacturing
- Develop proficiency using parametric design software
- Create and evaluate a business plan

**Bachelor of Science Degree****Industrial and Engineering Administration**

I.	General Education Requirements	45 sem. hrs.
A.	Skills	13 sem. hrs. (13 SH)
	ENGL101	College Writing Skills (3)
	ENGL102	Writ/Research Skills (3)
	MATH107	Pre-Calculus (4)
	CSCI104	Computing Essentials I or Discipline-specific Computer Competency Course (3)
B.	Core	22 sem. hrs.
	1.	Artistic Expression (3)
	2.	World Civilizations (3)
	3.	American Civilizations (3)
	4.	Human Behavior (3)
	5.	Cult Div/Soc. Pluralism (3)
	6.	Ethics (3)
	7.	Natural Sciences (4)
	PHYS201	Physics I
C.	Distribution	10 sem. hrs.
	1.	Humanities and Fine Arts (3)
	ENGL370 or ENGL404	
	2.	Social & Behavioral Sciences (6)
	ECON220	Microeconomics
	3.	Science & Math (4)
	PHYS202	Physics II
II.	Career Development Component	15 sem. hrs.
	ENGR201	Eng Graphics
	MFGT105	Eng. Materials
	MFGT201	Quality Control
	MFGT225	Statics/Str Mat
	MATH260	Elem of Stats.
III.	Engineering Tech Specialization	22 sem. hrs.
	MFGT100	Mfg. Proc.
	MFGT302	Comp. Aid. Draft
	MFGT311	Rapid Prototype.
	MFGT315	Oper. Plan. In Mfg
	MFGT320	Cost Estimating
	MFGT375	Comp. Aid. Mfg.
	MFGT420	Mat. Handling

\*A Journeyman's Certificate in a manufacturing trade, **OR** an Associate Degree in Engineering Technology from an accredited institution will satisfy the specialization area.

<b>IV. Business Admin. Requirements</b>		24 sem. hrs.
ECON225	Macroeconomics	
ACCT215	Accounting I	
ACCT220	Accounting II	
ACCT325	Managerial Acct.	
FIN300	Prin. of Finance	
MGMT300	Prin. of Manag.	
MKGT300	Prin. of Marketing	
QUAN340	Stats for Bus/Econ	
<b>V. Free Electives **</b>		14 sem. hrs.
At least 6 credits of 300-level or higher courses are required. Students are encouraged to expand their business education and should consult with their advisor regarding relevant coursework that may be used in this area. If further experience is needed in MFGT or technology background, the following course is recommended: MFGT495 Industrial and Engineering Administration Internship		

<b>Seventh Semester</b>		
ACCT325	Managerial Accounting (3)	
FIN300	Finance I (3)	
MFGT320	Cost Estimating (3)	
	MFGT/Business elective (3)	
	Gen. Ed. Core (3)	
	<b>TOTAL</b>	15 sem. hrs.
<b>Eighth Semester</b>		
MGMT300	Principles of Management (3)	
MKTG 300	Principles of Marketing (3)	
QUAN 340	Statistics for Business and Economics (3)	
MFGT 420	Material Handling and Facility Planning (3)	
MFGT 325	Computer Aided Manufacturing (3)	
	<b>Total</b>	15 sem. hrs.

## BACHELOR OF SCIENCE INDUSTRIAL ENGINEERING

### ADMINISTRATION

(Suggested Eight-Semester sequence)

#### First Semester

MFGT100	Manufacturing Processes (4)	
MATH107	Pre-Calculus (4)	
MFGT105	Engineering Materials (3)	
ENGR201	Engineering Graphics (3)	
	First Year Experience (0)	
	<b>TOTAL</b>	14 sem. hrs.

#### Second Semester

ENGL101	College Writing Skills (3)	
MFGT201	Quality Control (3)	
MFGT302	Computer Aided Drafting I (3)	
CSCI104	Essential Computing (3) or Discipline-specific Computer Competency Course	
	Gen. Ed. Core (3)	
	<b>TOTAL</b>	15 sem. hrs.

#### Third Semester

PHYS201	Physics I (4)	
MATH260	Elements of Statistics (3)	
ENGL370	Business English Or	
ENGL404	Technical Writing (3)	
	Free Elective (3)	
	Gen. Ed. Core (3)	
	<b>TOTAL</b>	16 sem. hrs.

#### Fourth Semester

PHYS202	Physics II (4)	
MFGT225	Statics and Strengths of Materials (3)	
MFGT311	Rapid Prototyping (3)	
	Elective (3)	
	Gen. Ed. Core (3)	
	<b>TOTAL</b>	16 sem. hrs.

#### Fifth Semester

ECON220	Microeconomics (3)	
ACCT215	Accounting I (3)	
ENGL102	Writing/Research (3)	
	Free Elective (3)	
	Gen. Ed. Core (3)	
	<b>TOTAL</b>	15 sem. hrs.

#### Sixth Semester

ECON225	Macroeconomics (3)	
ACCT220	Accounting II (3)	
MFGT315	Operational Planning in Manufacturing (3)	
	MFGT/Business Elective (2)	
	Gen. Ed. Core (3)	
	<b>TOTAL</b>	14 sem. hrs.

## Psychology Department

FACULTY: Ronald A. Craig, Charles A. Edwards, Nancy Frambes, Sharon A. Hamilton, Joyce A. Jagielo, Gary LaBine, Susan J. LaBine, Cynthia Legin-Bucell, Gary M. Levine, Grant McLaren, Peter J. McLaughlin, Gregory D. Morrow, William D. Pithers, Michael A. Skelly, Heather T. Snyder

The Bachelor of Science degree program in psychology is designed to serve the student seeking a terminal liberal arts degree, as well as the student who is preparing for graduate training in psychology or allied fields. Many career opportunities exist in mental health, schools, business and industry, the non-profit sector, as well as government service for program graduates.

Students complete eight foundation courses, including one research methods course which fulfills the computer competency requirement for General Education Skills. Students also choose an area of concentration in either Applied Mental Health, Applied Developmental, or a Custom Focus which is developed in collaboration with a Psychology program advisor. An Internship in Psychology (PSYC395) is available to interested students meeting the pre-requisite course requirements and overall grade point average (minimum of 2.5). This course allows the student to obtain intensive "on the job" experience prior to graduation. The Psychology Program has adopted the following student learning outcome goals as put forward by the American Psychology Association in 2013 for undergraduate degree programs.

Goal 1:	Knowledge Base in Psychology
Goal 2:	Scientific Inquiry and Critical Thinking
Goal 3:	Ethical and Social Responsibility in a Diverse World
Goal 4:	Communication
Goal 5:	Professional Development

## Bachelor of Science Degree

### Psychology

I.	General Education Requirements	42 sem. hrs.
II.	Major in Psychology	52 sem. hrs.
	A. Required Psychology Foundation Courses* (22 sem. hrs.)	
	PSYC101	Introduction to Psychology (3)
	PSYC225/6	Psychological Statistics (4)**
	PSYC227	Experimental Psychology ( <i>counts under General Education-Skills</i> ) (3)***

Theory Foundations

Choose one of the following two courses:

- PSYC300 Learning Theory (3) **or**
- PSYC400 Cognitive Psychology (3)

Choose one of the following two courses:

- PSYC390 Social Psychology (3) **or**
- PSYC370 Psychology of Personality (3)

Choose one of the following two courses:

- PSYC350 Drugs and Human Behavior **or**
- PSYC425 Behavioral Neuroscience (3)

Advanced Lab Coursework

Choose one of the following Advanced PSYC lab courses:\*\*\*\*

- PSYC380 Lab in Animal Learning
- PSYC405 Cognitive Lab
- PSYC 427 Applied Psychology Lab
- PSYC430 Lab in Social Psychology
- PSYC440 Lab in Behavioral Intervention **or**
- PSYC 497 Advanced Research Seminar in Psyc

Capstone Experience

Choose one of the following Capstone courses:

- PSYC 395 or 396 Internship
- PSYC 489 History & Systems of Psychology
- PSYC 490 Independent study
- PSYC 496 Advanced Seminar in PSYC **or**
- PSYC 497 Advanced Research Seminar in PSYC

**B. Psychology Concentration Courses (Applied Mental Health, Applied Developmental, or Custom Focus) (15 sem. hrs.)\*  
Applied Mental Health Concentration (15 sem. hrs.)**

Required:

- PSYC365 Abnormal Psychology (3)
- PSYC373 Introduction to Clinical Psychology (3)
- PSYC385 Introduction to Professional Psychology (3)

Choose two of the following courses:

- PSYC319 Psychology of Aging (3)
- PSYC375 Introduction to Psychological Assessment (3)

**Applied Developmental Concentration (15 sem. hrs.)**

Required:

- PSYC317 Developmental Psychology (3)
- PSYC377 Psychology of the Family (3)
- PSYC387 Developmental Psychopathology (3)

Choose two of the following courses:

- PSYC375 Introduction to Psychological Assessment (3)
- PSYC385 Introduction to Professional Psychology (3)
- PSYC388 Group Psychotherapy (3)

**Custom Concentration (15 sem. hrs.)**

Required:

Students complete 15 additional hours in Psychology based on career goals with guidance from their Psychology Department advisor.

**C. Psychology Electives (15 sem. hrs.)**

- III. Free Electives 26 sem. hrs.
- TOTAL 120 sem. hrs.

Students are required to have an overall GPA of 2.5 or higher to graduate with a Degree in Psychology.  
Students are required to have a GPA of 2.5 to declare Psychology as a major (except for 1<sup>st</sup> semester freshman and transfer students).

\*A grade of C or better must be earned in each foundation and concentration courses and PSYC 227.

\*\* Students are required to successfully complete MATH104 (or higher) with a C or better before enrolling in PSYC225/6 Psychological Statistics/Psyc Stats Discussion.

\*\*\*Students are required to successfully complete ENGL102 (or higher) and PSYC225/226 Psychological Statistics /Psyc Stats Discussion with a grade of C or better in each course **prior** to enrollment in PSYC227 Experimental Psychology.

\*\*\*\* Students are required to successfully complete PSYC227 Experimental Psychology with a grade of C or better **prior** to enrollment in any of the “Advanced Lab” courses. Each lab course has an additional theory prerequisite as well.

NOTE: Psychology majors are **not** permitted to count psychology courses under General Education except PSYC227 for computer competency.

**BACHELOR OF SCIENCE PSYCHOLOGY (Concentration: Applied-Mental Health)  
(Suggested Eight-Semester Sequence; other options are available)**

**First Semester**

- PSYC101 Introduction to Psychology (3)
- ENGL101 College Writing Skills (3)
- MATH104 Finite Math (3) or higher
- General Education Core Courses (6)
- 15 sem. hrs.

**Second Semester**

- PSYC110 Critical Thinking in Psychology (recommended PSYC elective) (3)
- ENGL102 Specialized College Writing and Research Skills (3)
- General Education Core Courses (9)
- 15 sem. hrs.

**Third Semester**

- PSYC225/6 Psychological Statistics/Psyc Stats Discussion (4)
- PSYC365 Abnormal Psychology (3)
- PSYC370 Psychology of Personality OR
- PSYC390 Social Psychology (3)
- General Education Core Courses (6)
- 16 sem. hrs.

**Fourth Semester**

- PSYC227 Experimental Psychology (*General Education-Computer Competency*) (3)
- PSYC300 Learning Theory/Appl OR
- PSYC400 Cognitive Psychology (3)
- PSYC373 Introduction to Clinical Psychology (3)
- General Education Distribution 1 (*Humanities and Fine Arts*) (3)
- Free Elective Course (2)
- 14 sem. hrs.

**Fifth Semester**

- PSYC350 Drugs and Human Behavior OR
- PSYC425 Behavioral Neuroscience (3)
- PSYC375 Introduction to Psychology Assessment OR
- PSYC319 Psychology of Aging OR
- PSYC388 Group Psychology (3)
- General Education Distribution 2 (*Social and Behavioral Sciences*) (3)
- Free Elective Course (3)
- 12 sem. hrs.

**Sixth Semester**

PSYC385	Introduction to Professional Psychology (3)	
PSYC388	Group Psychology OR	
PSYC319	Psychology of Aging OR	
PSYC375	Introduction to Psychology Assessment (3)	
PSYC	Psychology Elective Course (3)	
	General Education Distribution 3 ( <i>Natural Science and Math</i> ) (3)	

12 sem. hrs.

**SUMMER INTERNSHIP IN PSYCHOLOGY**

12 sem. hrs.

**Seventh Semester**

PSYC	Psychology Advanced Lab Course (3)	
	Free Elective Courses (9)	

12 sem. hrs.

**Eighth Semester**

	Free Elective Courses (12)	
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12 sem. hrs.

**BACHELOR OF SCIENCE PSYCHOLOGY (Concentration:****Applied-Developmental)****(Suggested Eight-Semester Sequence; other options are available)****First Semester**

PSYC101	Introduction to Psychology (3)	
ENGL101	College Writing Skills (3)	
MATH104	Finite Math (3) or higher	
	General Education Core Courses (6)	

15 sem. hrs.

**Second Semester**

PSYC110	Critical Thinking in Psychology (recommended PSYC elective) (3)	
ENGL102	Specialized College Writing and Research Skills (3)	
	General Education Core Courses (9)	

15 sem. hrs.

**Third Semester**

PSYC225/6	Psychological Statistics /Psyc Stats Discussion (4)	
PSYC317	Developmental Psychology (3)	
PSYC370	Psychology of Personality OR	
PSYC390	Social Psychology (3)	
	General Education Core Courses (6)	

16 sem. hrs.

**Fourth Semester**

PSYC227	Experimental Psychology ( <i>General Education-Computer Competency</i> ) (3)	
PSYC300	Learning Theory/Appl OR	
PSYC400	Cognitive Psychology (3)	
PSYC350	Drugs and Human Behavior OR	
PSYC 425	Behavioral Neuroscience (3)	
	General Education Distribution 1 ( <i>Humanities and Fine Arts</i> ) (3)	
	Free Elective Course (2)	

14 sem. hrs.

**Fifth Semester**

PSYC387	Developmental Psychopathology (3)	
PSYC385	Introduction to Professional Psychology OR	
PSYC375	Introduction to Psychology Assessment OR	
PSYC388	Group Psychotherapy (3)	
	General Education Distribution 2 ( <i>Social and Behavioral Sciences</i> ) (3)	
	Free Elective Course (3)	

12 sem. hrs.

**Sixth Semester**

PSYC377	Psychology of the Family (3)	
PSYC385	Introduction to Professional Psychology OR	
PSYC388	Group Psychotherapy OR	
PSYC375	Introduction to Psychology Assessment (3)	
PSYC	Psychology Elective Course (3)	
	General Education Distribution 3 ( <i>Natural Science and Math</i> ) (3)	

12 sem. hrs.

**SUMMER INTERNSHIP IN PSYCHOLOGY**

12 sem. hrs.

**Seventh Semester**

PSYC	Psychology Advanced Lab Course (3)	
	Free Elective Courses (9)	

12 sem. hrs.

**Eighth Semester**

	Free Elective Courses (12)	
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12 sem. hrs.

**BACHELOR OF SCIENCE PSYCHOLOGY (Concentration:****Custom Focus)****(Suggested Eight-Semester Sequence; other options are available)****First Semester**

PSYC101	Introduction to Psychology (3)	
ENGL101	College Writing Skills (3)	
MATH104	Finite Math (3) or higher	
	General Education Core Courses (6)	

15 sem. hrs.

**Second Semester**

PSYC110	Critical Thinking in Psychology (recommended PSYC elective) (3)	
ENGL102	Specialized College Writing and Research Skills (3)	
	General Education Core Courses (9)	

15 sem. hrs.

**Third Semester**

PSYC225/6	Psychological Statistics /Psyc Stats Discussion (4)	
PSYC	Psychology Elective Course (3)	
PSYC370	Psychology of Personality OR	
PSYC390	Social Psychology (3)	
	General Education Core Courses (6)	

16 sem. hrs.

**Fourth Semester**

PSYC227	Experimental Psychology ( <i>General Education-Computer Competency</i> ) (3)	
PSYC300	Learning Theory/Appl OR	
PSYC400	Cognitive Psychology (3)	
PSYC350	Drugs and Human Behavior OR	
PSYC425	Behavioral Neuroscience (3)	
	General Education Distribution 1 ( <i>Humanities and Fine Arts</i> ) (3)	
	Free Elective Course (2)	

14 sem. hrs.

**Fifth Semester**

PSYC	Psychology Courses (determined with advisor) (6)	
PSYC	Psychology Elective Course (3)	
	General Education Distribution 2 ( <i>Social and Behavioral Sciences</i> ) (3)	
	Free Elective Course (3)	

15 sem. hrs.

**Sixth Semester**

PSYC	Psychology Courses (determined with advisor) (6)	
PSYC	Psychology Elective Courses (6)	
	General Education Distribution 3 ( <i>Natural Science and Math</i> ) (3)	15 sem. hrs.

**Seventh Semester**

PSYC	Psychology Course (determined with advisor) (3)	
PSYC	Psychology Advanced Lab Course (3)	
	Free Elective Courses (9)	15 sem. hrs.

**Eighth Semester**

PSYC	Psychology Capstone Course (3)	
	Free Elective Courses (12)	15 sem. hrs.

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## Social Work Department

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FACULTY: Hilary Copp, William Koehler, Charlene Kolupski, Suzanne McDevitt, Mary McIntosh, David N. Pugh, Christine Rine, Elaine Rinfrette, Roselle Scaggs, Margaret Smith

The Department offers a Bachelor of Science degree in Social Work. In addition to approval granted by the Pennsylvania State System of Higher Education, the program has been fully accredited by the Council of Social Work Education. A recent study revealed that 96 percent of our social work graduates obtained professional employment in the field.

Majors in the Department's degree program have had considerable success in being admitted to graduate schools.

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## Bachelor of Science Degree

### Social Work

The mission of the baccalaureate Social Work Program is to prepare graduates with the knowledge, values and skills for competent and effective beginning-level generalist social work practice and for a commitment to social and economic justice, cultural competency, advocacy for oppressed and at-risk populations, lifelong learning, and active participation, contributions, and leadership in the larger community. The program strives to achieve its mission by providing access to a quality education that offers a range of learning experiences and opportunities for students.

The program prepares students to achieve 10 competencies related to social work practices.

1. Identify as a professional social worker and conduct oneself accordingly.
2. Apply social work ethical principles to guide professional practice.
3. Apply critical thinking to inform and communicate professional judgments.
4. Engage diversity and difference in practice.
5. Advance human rights and social and economic justice.
6. Engage in research-informed practice and practice-informed research.
7. Apply knowledge of human behavior and the social environment.
8. Engage in policy practice to advance social and economic well-being and to deliver effective social work services.

9. Respond to contexts that shape practice.
10. Engage, assess, intervene and evaluate with individuals, families, groups, organizations and communities.

Graduates find employment in a variety of settings working with the elderly, children, the mentally ill and mentally retarded, adult and juvenile offenders, and persons with disabilities. Graduates work in schools, institutions for dependent populations, group homes, mental health centers, hospitals, child welfare agencies, nursing homes, community centers and many other human service organizations.

The Baccalaureate Social Work Program is accredited by the Council on Social Work Education. Program requirements are designed to prepare students for direct services with client systems of various sizes and types. The curriculum is based on a liberal arts perspective and includes professional foundation courses that contain the common body of the social work profession's knowledge, values and skills. The liberal arts base provides knowledge in artistic expression, American and world civilizations, social and behavioral science, cultural diversity and social pluralism, literature, science and philosophy. There is considerable latitude for individual choice within the liberal arts component of the curriculum, but students are required to have courses that provide them with good oral and written communication skills, knowledge of social, psychological and biological determinants of human behavior and diverse cultures, social conditions and social problems.

The program does not grant social work course credit for life experience or previous work experience.

All freshmen and sophomore students pursuing a degree in social work are Level I pre-social work majors. All Level I pre-social work students, in the semester that they take SOWK250, must complete an application for formal admission into the program and must be interviewed by the social work program director or other designated social work program faculty. Students are responsible for returning completed application forms to the program director and for scheduling an appointment for a formal admission interview. The program will either accept the student unconditionally, accept the student with conditions explicitly stated or reject the student, giving clear reasons for that decision and recommending alternatives. The student and registrar will be informed of the decision. Applications are accepted in the spring semester only.

Students must maintain a G.P.A. of 2.00; receive at least a "C" in each required social work course and a 2.5 average in the required courses; and a cumulative G.P.A. of 2.00 in required supporting courses to continue in the program. All required courses must be completed prior to taking SOWK495/496.

BSW Program Goals (Core Competencies) - Upon completion of the program students will be able to:

- Identify as a professional social worker and conduct his or her self accordingly.
- Apply social work ethical principles to guide his or her professional practice.
- Apply critical thinking to inform and communicate professional judgments.
- Engage diversity and difference in practice.
- Advance human rights and social and economic justice.
- Engage in research-informed practice and practice-informed research.
- Apply knowledge of human behavior and the social environment.
- Engage in policy practice to advance social and economic well-being and to deliver effective social work services.
- Respond to contexts that shape practice.
- Engage, assess, intervene, and evaluate with individuals, families, groups, organizations, and communities.



I.	General Education Requirements	42 sem. hrs.
II.	Specialization in Social Work	60 sem. hrs.
A.	Required Courses (42 sem. hrs.)	
	*SOWK100 Introduction to Social Work (3)	
	*SOWK115 Human Diversity (3)	
	*SOWK205 Human Behavior in the Social Environment (3)	
	*SOWK250 Introduction to Social Welfare Policy (3)	
	SOWK300 Social Welfare Policy (3)	
	SOWK310 Social Work Practice I (3)	
	SOWK312 Social Work Practice II (3)	
	SOWK315 Introduction to Social Work Research (3)	
	SOWK410 Social Work Practice III (3)	
	SOWK495 Internship: Social Work Fieldwork (12)	
	SOWK496 Senior Seminar (Concurrent with SOWK495) (3)	
B.	Required Related Courses (18 sem. hrs.)	
	PSYC101 Introduction to Psychology (3)	
	PSYC225 Psychological Statistics (3)	
	BIOL101 Human Biology (3)	
	SOC100 Principles of Sociology (3)	
	SOC326 Society and the Individual (3)	
	SOC390 Sociology of the Life Cycle (3)	
III.	Free Electives	18 sem. hrs.
	<b>TOTAL</b>	<b>120 sem. hrs.</b>

\* These courses are required for Level II admission.

### BACHELOR OF SCIENCE – SOCIAL WORK (Suggested Eight-Semester Sequence, with the named courses in the first four semesters required for Level II Admission\*)

<b>First Semester</b>		
*SOWK100	Introduction to Social Work (3)	
ENGL101	College Writing Skills (3)	
MATH104	Finite Mathematics (3) or higher	
PSYC101	Introduction to Psychology (Core 4) (3)**	
SOC100	Principles of Sociology (Core 5) (3)**	
	<b>TOTAL</b>	<b>15 sem. hrs.</b>
<b>Second Semester</b>		
*SOWK115	Human Diversity (3)	
ENGL102	Specialized College Writing and Research Skills (3)	
CSCI104	Essential Computing I (3) or Discipline-specific Computer Competency Course	
BIOL 101	Human Biology (Distribution 3) (3)** Core 2 (3)	
	<b>TOTAL</b>	<b>15 sem. hrs.</b>
<b>Third Semester</b>		
*SOWK205	Human Behavior in the Social Environment (3)	
SOC326	Society and the Individual (Distribution 2) (3)** Core 1 (3) Core 3 (3) Core 7 (3)	
	<b>TOTAL</b>	<b>15 sem. hrs.</b>
<b>Fourth Semester</b>		
*SOWK250	Introduction to Social Welfare Policy (3) Distribution 1 (3) Core 6 (3) Free Elective (3)** Free Elective (3)**	
	<b>TOTAL</b>	<b>15 sem. hrs.</b>

\* Apply for admission to Level II – Social Work major in the fourth semester.

<b>Fifth Semester</b>		
SOWK300	Social Welfare Policy (3)	
SOWK310	Social Work Practice I (3)	
PSYC225	Psychological Statistics (3)	
	Free Elective (3)**	
	Free Elective (3)**	
	<b>TOTAL</b>	<b>15 sem. hrs.</b>
<b>Sixth Semester</b>		
SOWK312	Social Work Practice II (3)	
SOWK315	Introduction to Social Work Research (3)	
SOC390	Sociology of the Life Cycle (3)**	
	Free Elective (3)**	
	Free Elective (3)**	
	<b>TOTAL</b>	<b>15 sem. hrs.</b>
<b>Seventh Semester</b>		
SOWK410	Social Work Practice III (3)	
	Free Elective (3)**	
	Free Elective (3)**	
	Free Elective (3)**	
	Free Elective (3)**	
	<b>TOTAL</b>	<b>15 sem. hrs.</b>
<b>Eighth Semester</b>		
SOWK495	Internship: Social Work Fieldwork (12)	
SOWK496	Senior Seminar (concurrent with SOWK495) (3)	
	<b>TOTAL</b>	<b>15 sem. hrs.</b>

\*The baccalaureate Social Work program is divided into two levels: Level I pre-social work major and Level II social work major. Student must apply and be admitted to the major at the end of the sophomore year.

\*\*The baccalaureate Social Work program curriculum has 18 credits of free electives. By using required supporting courses to fill General Education requirements, students can acquire additional free electives. Students are encouraged to take social work electives and courses that are required for minors as free electives.

## Speech, Language and Hearing Department

FACULTY: Cynthia Reyes, Susan Hegel, Kate Krival, Charlotte Molrine, Skye Raupp, Jane Messier, Roy Shinn

The B.S. degree program in Speech and Hearing Sciences provides the foundational knowledge in communication sciences that is prerequisite for professional, graduate study in speech-language pathology and audiology throughout the U.S. This degree program provides preparation in basic critical thinking and communication skills that are essential for a variety of professions. Students acquire knowledge of the anatomical, physiological, acoustic, developmental, and linguistic bases of normal human communication that will serve as a reference point for studying and treating various disorders of speech, language, hearing, and deglutition across the lifespan. During the senior year, students complete guided observations of individuals receiving professional services for communication problems and begin to learn about the clinical process. The 36 semester hour core and 9 semester hours of interdisciplinary electives provides students with a very solid base with which to begin graduate study, plus it offers the flexibility of 33 hours of free electives. A master's degree is needed for professional employment in all service delivery settings and additional PDE certification is needed to work in Pennsylvania schools.

Students are strongly encouraged to become active members of The Speech and Hearing Club sanctioned by the Edinboro University Student Government Association. It provides opportunities for students to participate in service projects, fundraising, and social/recreational activities.

Students majoring in the Speech and Hearing Sciences program have an opportunity to observe clinical services at the Gov. George Leader Speech and Hearing Center or other approved sites.

Students majoring in the Speech and Hearing Sciences program must earn a minimum letter grade of C in all SHLD courses *and* in required English writing courses.

The mission of the B.S. program in Speech and Hearing Science at Edinboro University of Pennsylvania is to provide pre-professional education primarily in the areas of speech-language pathology and audiology. Graduates of the Bachelor of Science in Speech and Hearing Sciences will be able to:

- Identify and explain the developmental milestones and expected skills and abilities characteristic of normal/typical speech, language, cognition, literacy, and hearing development across the life span;
- Identify and describe the relevant anatomical structures used to communicate;
- Demonstrate phonetic transcription skills (receptive and expressive) necessary for graduate study and professional practice;
- Identify and describe the key acoustic elements of speech production and their physiological correlates;
- Identify the etiology and characteristics of various disorders of human communication;
- Demonstrate oral and written communication skills essential for graduate studies and professional employment in the field of communication sciences and disorders;
- Apply critical thinking and analytical skills to problem solving;
- Demonstrate an understanding and application of the professional skill set of time management, collaboration, confidentiality, and ethical behaviors associated with the field of communication sciences and disorders;
- Recognize the need for and responsibility of pursuing life-long learning.

**GRADUATE STUDY**

The department offers graduate study leading to the degree of Master of Arts in Speech-Language Pathology. The program in Speech-Language Pathology is accredited by the Council on Academic Accreditation (CAA) in Audiology and Speech-Language Pathology of the American Speech-Language Hearing Association (ASHA). The degree in Speech-Language Pathology prepares students to meet ASHA certification and Pennsylvania licensure requirements. Certification by the Pennsylvania Department of Education (PDE) is optional.

**Bachelor of Science Degree  
Speech and Hearing Sciences**

I.	General Education Requirements **	42 sem. hrs.
II.	Speech-Language-Hearing Sciences Concentration	36 sem. hrs.
	A. Communication Sciences	15 sem. hrs.
	SHLD125 Psych of Comm (3)	
	SHLD300 Communication Across the Lifespan (3)	
	SHLD355 Anat and Phys of SLP Mech (3)	
	SHLD350 Speech and Hearing Science (3)	
	SHLD375 Acoustical Phonetics (3)	

B.	Introduction to Communication Disorders	9 sem. hrs.
	SHLD210 Survey Comm Dis Children (3)	
	SHLD220 Survey Comm Dis Adults (3)	
	SHLD230 Intro to Audiology (3)	
C.	Professional Foundations	12 sem. hrs.
	SHLD320 Managing Artic/Phono Dis (3)	
	SHLD340 Adv Language Dev and Analysis (3)	
	SHLD420 Observe Norm and Dis Comm (3)	
	SHLD515 Audiologic Rehab (3)	
III.	Speech and Hearing Electives	9 sem. hrs.
	SHLD500 Neuroanatomy for the SLP (3)	
	SHLD520 Comm Dis Across Cultures (3)	
	SHLD530 Counseling and Comm Dis (3)	
	SPED480 Develop/Learning Dis (3)	
IV.	Free Electives: Special Student-Developed Study Focus	33 sem. hrs.
	Must complete at least one course in biological science and one course in physical science. See Department for list of eligible courses.	
	<b>TOTAL</b>	<b>120 sem. hrs.</b>

At least 42 semester credit hours must consist of advanced coursework.  
 \*A grade of “C” or better is required in all SHLD courses.  
 \*\*Math and English skills requirements must be completed within the first 45 credits.

To be recommended for Pennsylvania Instructional I Certification in Speech Language Impaired, the following program must be completed.

1. Complete all requirements for the Master of Arts degree in Speech-Language Pathology.
2. Meet all other requirements, such as national standardized tests that currently are stipulated by the PA Department of Education.

**BACHELOR OF SCIENCE – SPEECH AND HEARING SCIENCES  
(Suggested Eight-Semester Sequence)**

**First Semester**

ENGL101	College Writing Skills (3)
MATH104	Finite Mathematics or higher (3)
SHLD125	Psychology of Communication (3)
PSYC101	Introduction to Psychology (3)
	General Education Core Course (3)
	<b>TOTAL 15 sem. hrs.</b>

**Second Semester**

ENGL102	Specialized College Writing and Research Skills (3)
	Physical Science Course (3)
	Biological Science Course (3)
CSCI104	Essentials of Computing I (3) or Discipline-specific Computer Competency Course
	General Education Core Course (3)
	<b>TOTAL 15 sem. hrs.</b>

**Third Semester**

SHLD210	Survey Comm. Dis. Children (3)
	General Education Distribution Course (3)
	General Education Core Course (3)
	General Education Core Course (3)
	<b>TOTAL 15 sem. hrs.</b>

**Fourth Semester**

SHLD220	Survey Comm. Dis. Adults (3)
SHLD230	Introduction to Audiology (3)
	Free Electives (9)
	<b>TOTAL 15 sem. hrs.</b>

**Fifth Semester**

SHLD300	Communication Develop Across Lifespan (3)	
SHLD355	Anatomy & Physiology S & H (3)	
SHLD375	Acoustical Phonetics (3)	
	Free Elective (3)	
	Free Elective (3)	
	TOTAL	15 sem. hrs.

**Sixth Semester**

SHLD320	Found of Artic/Phono Dis (3)	
SHLD340	Advanced Language Development/ Analysis (3)	
SHLD350	Speech & Hearing Science (3)	
	Free Elective (3)	
	Free Elective (3)	
	TOTAL	15 sem. hrs.

**Seventh Semester**

Choose two from the following classes:	
SHLD500, SHLD520	(6)
Free Elective	(3)
Free Elective	(3)
Free Elective	(3)
TOTAL	15 sem. hrs.

**Eighth Semester**

SHLD420	Observe Norm. and Dis, Comm (3)
SHLD515	Audiologic Rehabilitation (3)
SHLD530	(3)
	Free Elective (3)
	Free Elective (3)
	TOTAL
	15 sem. hrs.

# School of Business

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## Business and Economics Department

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FACULTY: Gerald Carnes, John Dexter, Michael Engdahl, Shuang Feng, Timothy Few, Qiwei, Gan, Kosin Isariyawongse, Asri Jantan, Jingze Jiang, Michael Morrison, Shaun Pfeiffer

### Mission

The mission of the Department of Business and Economics and the School of Business is to deliver quality undergraduate education in the areas of business and economics. The School is to provide opportunities for students for personal, professional and career advancement through quality instruction, academic advisement and comprehensive curricula. The School is committed to providing this educational experience through a faculty engaged in scholarship, professional development activities and service that enhance disciplinary and practitioner knowledge and develop pedagogical and advisement skills.

### Vision

Our vision is to be a leading undergraduate business and economics education institution in the region, fostering student commitment to lifelong intellectual growth and professional development in an increasingly complex world.

The Department offers course work leading to an associate degree in business administration, baccalaureate degrees in economics and business administration, and minor programs in economics and business administration. The B.S. degree in Business Administration offers six concentrations: Accounting, Accounting/Forensic Accounting and Fraud Examination, Comprehensive Business Administration, Financial Services, and Management Information Systems. The overriding goal of all of these programs is to prepare students for a successful professional career in the field he or she has chosen. The Department recognizes that an integral part of this preparation is the exposure of students to the liberal arts, and sciences; therefore, each of the programs offered by the Department has this general education exposure as a required component.

The Department actively participates in the University internship program, assisting students in placement with regional business organizations to gain practical employment experience. Academically superior juniors and seniors may be nominated for membership in a national business honor society. The Department also provides opportunities for leadership development through participation in clubs and organizations in the Department and across the University.

The School of Business also offers a mentoring program for its students. This program allows students to apply to have a mentor in his or her field of study to assist him or her in academic planning, career preparation, and goal setting.

In order to graduate from a program offered by the Department, the student must have a 2.25 cumulative grade point average in all courses taken in the Department offered for graduation.

Edinboro University of Pennsylvania, through its Department of Business and Economics, is accredited by the Accreditation Council for Business Schools and Programs (ACBSP) to offer the following business degrees:

- the Associate of Science in Business Administration
- the Bachelor of Science in Business Administration with concentrations in Accounting, Forensic Accounting and Fraud Examination, Comprehensive Business Administration, Financial Services, Management Information Systems, and Marketing.

ACBSP is a leading accreditation agency for business education. The programs of study at accredited schools have been examined for currency, relevance, comprehensiveness and rigor. ACBSP accredits business, accounting, and business-related programs at the associate, baccalaureate, master, and doctorate degree levels worldwide. ACBSP was the first to offer specialized business accreditation at all degree levels and is recognized by the Council for Higher Education Accreditation (CHEA). The credentials of the faculty teaching at accredited schools have been examined for preparation and professional development currency and relevance. *Students attending ACBSP accredited schools can expect programs of study that will prepare them well for the challenges of a career in business in an environment that enhances student learning.*

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## Associate of Science Degree

### Business Administration

The associate degree program in Business Administration provides a foundation in business that prepares graduates for direct entry into the work force. The primary objective of this major is to provide a business-oriented program with sufficient communication, computer and mathematical skills as well as relevant business coursework to develop a well-rounded, business-literate graduate ready for the modern workplace. This program may also be used by students intending to continue to a BSBA degree but needing evidence of academic credentials in a 60 hour academic window. Students planning to continue into the BSBA degree should meet with their advisors regarding course sequencing before scheduling the last semester of coursework.

#### AS Business Administration Learning Goals

1. Students will correctly analyze and interpret quantitative data as a basis for business decision-making.
2. Students will apply the concept of elasticity of demand.
3. Students will apply the supply/demand models for the analysis of economic events.
4. Students will apply the concept of time value of money to a business valuation situation.
5. Students will interpret the meaning of the four basic financial reports, which include the income statement, balance sheet, statement of cash flows, and the statement of stockholders' equity.
6. Students will describe the concept of organizational structure, teamwork and communication.
7. Students will describe each element of the marketing mix: product, price, promotion and place.
8. Students will produce reports and business correspondence of professional quality.
9. Students will demonstrate competence in the use of productivity software.
10. Students will identify the difference between legal and ethical decision-making.

Note: The Associate of Science in Business Administration has had major programmatic changes implemented in the Fall semester 2011. Students matriculating into the Business & Economics Department prior to that date should consult an earlier catalogue.

I. General Education Requirements		24 sem. hrs.
To include:		
ENGL101	College Writing Skills (3)	
ENGL102	Specialized College Writing and Research Skills (3)	
MATH150	Math for Business (3)	
CSCI104	Essential Computing 1 (3)	
PHIL240	Introduction to Contemporary Issues (3)	
Three courses approved in three areas of Core 1-5 (9)		
II. Business Foundation Requirements		30 sem. hrs.
ACCT215	Principles of Accounting I (3)	
ACCT220	Principles of Accounting II (3)	
BUAD160	Business and Society (3)	
BUAD260	Business Law I (3)	
ECON220	Principles of Microeconomics (3)	
ECON225	Principles of Macroeconomics (3)	
ENGL370	Business English (3)	
MATH260	Elements of Statistics (3)	
MGMT260	Fundamentals of Management & Marketing (3)	
Business Elective	One of the following courses:	
CSCI204	Essentials of Computing II (3)	
ECON301	Personal Economics(3)	
ECON345	Money and Banking (3)	
III. Free Electives		6 sem. hrs.
	<b>TOTAL</b>	<b>60 sem. hrs.</b>

#### ASSOCIATE OF SCIENCE – BUSINESS ADMINISTRATION (Suggested Four-Semester Sequence)

##### First Semester

BUAD160	Business in Society (3)	
CSCI104	Essentials of Computing I (3) or Discipline-specific Computer Competency Course	
ENGL101	College Writing Skills (3)	
MATH150	Math for Business (3)	
PHIL240	Contemporary Moral Issues (3)	
BUAD00	Business Primer (0 semester hours)	
	<b>TOTAL</b>	<b>15 sem. hrs.</b>

##### Second Semester

ECON220	Principles of Microeconomics (3)	
ENGL102	Writing and Research Skills (3)	
	Three General Education Core Courses (9)	
	<b>TOTAL</b>	<b>15 sem. hrs.</b>

##### Third Semester

ACCT215	Principles of Accounting I (3)	
ECON225	Principles of Macroeconomics (3)	
ENGL370	Business English (3)	
MATH260	Elements of Statistics (3)	
	One Free Elective (3)	
	<b>TOTAL</b>	<b>15 sem. hrs.</b>

##### Fourth Semester

ACCT220	Principles of Accounting II (3)	
MGMT260	Fundamentals of Management & Marketing (3)	
BUAD260	Business Law I (3)	
	One Business Elective (3)	
	One Free Elective (3)	
	<b>TOTAL</b>	<b>15 sem. hrs.</b>

This is the *recommended* course sequence necessary to complete the Associate of Science in Business Administration degree requirements in four semesters. The student should meet with his/her academic

advisor for individualized advice on course sequencing. Academic advisors can only advise; meeting graduation requirements is the student's responsibility.

Many first-semester freshmen are more comfortable taking only 12 semester hours their first semester in college. This is acceptable and a student still can complete the degree requirements in four semesters providing he/she adds three semester hours to a later semester.

Note: Transfer students must complete a minimum of 15 credits in the Business and Economics Department and a minimum of 30 credits at Edinboro University.

## Bachelor of Science Degree

### Business Administration

All candidates for the Bachelor of Science degree in business administration are required to take a broad program of business foundation courses prior to seeking admission into one of the following concentrations: accounting or forensic accounting and fraud examination, comprehensive business administration, financial services, management information systems, or marketing. Admission to a concentration will be granted following the completion of 36 credit hours including completion of 3 of the following courses: ACCT215, ACCT220, BUAD160, BUAD260, ECON220, ECON225 and QUAN340. A GPA of 2.25 in the major and overall is required to enter, continue and graduate in the concentrations.

The **Accounting** concentration is designed to provide students with an understanding of the concepts, theory and conventions common to the practice of managerial (private business and industry), institutional (government and not-for-profit), and public accounting. This program is designed to provide all the courses necessary for students to sit for the Certified Public Accountant (CPA) examination in Pennsylvania. Students may also complete a dual concentration to complete the 150 hour requirement for CPA licensure (please see the Department for more information). Students concentrating in accounting may take specified courses from the criminal justice program to earn a **Forensic Accounting and Fraud Examination** focus. The **Forensic Accounting and Fraud Examination** program prepares students for financial fraud-detection work. Forensic accountants often work for law enforcement agencies such as the FBI and for public accounting firms.

The **Comprehensive Business Administration** concentration introduces students to the diversified functions of business including management, finance, accounting, marketing, operations, human resources, information resources management and business law. Students are encouraged to gain a broad working knowledge of the theory and practice of all the business functions while widening their scope of analysis and decision-making. This concentration enables students to seek employment in any function of business including finance, production, logistics and human resource management. It prepares students for careers in large and small businesses, in non-profit organizations, in government and as entrepreneurs. The flexibility of this program makes it especially appropriate for students interested in **Entrepreneurship, Management, or Logistics**. The program is deliberately constructed to accommodate students interested in **International Business**. Courses in International Economics, International Finance, Comparative Management, International Marketing and the Legal Environment of International Business can be taken within this program to prepare students for careers in multi-national firms, expatriate positions and import/export management.

The program also allows a student interested in **Human Resource Management** to complete coursework that will prepare the student for a successful career in that field.

The **Financial Service** concentration is designed to prepare students for careers as financial planners and advisors, investment managers and financial managers in financial planning agencies, depository institutions, non-depository holding and investment offices, insurance companies, real estate brokerages and investment houses, securities and commodity dealerships, and other commercial enterprises. The Financial Services concentration is registered with Certified Financial Planner Board of Standards Inc. Graduates of a registered financial planning program meet the educational requirements to take the CFP® Certification Examination. Edinboro University of Pennsylvania does not certify individuals to use the CFP® and CERTIFIED FINANCIAL PLANNER™ and CFP (with flame logo)® certification marks CFP certification is solely granted by Certified Financial Planner Board of Standards Inc. to person who, in addition to completing an education requirement such as this CFP Board Registered Program, have met its ethics, experience and examination requirements. Certified Financial Planner Board of Standards Inc. owns the marks CFP® and CERTIFIED FINANCIAL PLANNER™ and CFP (with flame logo)®, which it awards to individuals who successfully complete initial and ongoing certification requirements.

The **Management Information Systems (MIS)** concentration provides students with both the business and the technology knowledge necessary to work in information management. The business courses provide students with an understanding of the structure and functions of business and, through the flexible upper-level business courses requirement, allow students to develop expertise in one or more specialized area. The computer science coursework provides an understanding of the information resources and technology essential to managing a business.

The **Marketing** concentration is designed to provide an understanding of the marketing function within consumer, business-to-business and institutional markets. It gives students the training and experience necessary to enable them to find employment in careers as product, brand and marketing managers; electronic marketers; marketing analysts; marketing researchers; promotions managers; sales directors and managers; buyers; and in other marketing related positions.

## Department of Business & Economics

### BS Business Administration Learning Goals & Objectives

1. **Analytical and Collaborative Problem-Solving Skills.** *Each student can determine and apply appropriate quantitative and analytical skills to solve practical business problems. Each student can function effectively as a team member for collaborative business decision-making.*
    - a. Students will correctly *identify* and *apply* appropriate quantitative methods for solving business problems.
    - b. Students will correctly *analyze* and *interpret* quantitative data as a basis for business decision-making.
    - c. Students will correctly *determine* causes of business problems and *contrast* the results of alternative decisions.
    - d. Students will *recognize* and *demonstrate* effective teamwork.
    - e. Students will *demonstrate* an understanding of cultural diversity, economic and commercial trends that affect global business.
  2. **Discipline Competence.** *Each student can demonstrate competence in the application of economic, financial, managerial, and marketing knowledge in the analysis of business problems in a global business environment.*
  3. **Communication Skills.** *Each student can effectively communicate a complicated business issue in both written and oral form using appropriate presentation technology.*
    - a. Students will effectively and concisely *communicate* ideas and opinions related to a complex business issue.
    - b. Students will *create* and *deliver* professional presentations using appropriate business presentation technology.
    - c. Students will *produce* reports and business correspondence of professional quality.
    - d. Students will *demonstrate* active listening skills.
  4. **Competence in the Application of Technology.** *Each student can demonstrate knowledge of information technology and competence in technology applications for making business decisions.*
- a. Students will *demonstrate* competence in the area of economics.
    - i. Students will *apply* the concept of elasticity of demand.
    - ii. Students will *apply* the supply/demand models for the analysis of economic events.
    - iii. Student will *analyze* the concept of externalities in macro and micro applications.
    - iv. Students will *interpret* exchange rates and *describe* their impact on global trade.
  - b. Students will *demonstrate* competence in the area of finance.
    - i. Students will *apply* the concept of time value of money and *explain* the concept of present value to business applications.
    - ii. Students will *interpret* the meaning of the four basic financial reports, which include the income statement, balance sheet, statement of cash flows, and the statement of stockholders' equity.
    - iii. Students will *calculate* financial ratios applicable to business firms and *interpret* those ratios for the purpose of business decision-making.
    - iv. Students will *explain* the nature and functions of international financial markets including the determination of interest rates.
  - c. Students will *demonstrate* competence in the area of management.
    - i. Students will *describe* the concept of organizational structure and communication.
    - ii. Students will *identify* the methods, and practices utilized to lead and motivate people within the organization.
    - iii. Students will *describe* the major activities related to the strategic planning process.
  - d. Students will *demonstrate* competence in the area of marketing.
    - i. Students will *examine* how each of the 4 Ps (Product, Price, Promotion and Place), collectively and individually, is used to meet marketing's goals.
    - ii. Students will *describe* the uncontrollable environments (economic, competitive, social, cultural, technological, governmental/legal), and *explain* how current and anticipated conditions in these environments influence marketing planning.
    - iii. Student will *describe* and *apply* the concept of market segmentation and positioning.
    - iv. Students will *explain* the distinction between standardization and customization when companies craft global marketing programs.
  - e. Students will *integrate* knowledge across functional areas of business in solving a business problem in a global business environment.

- a. Students will effectively *employ* spreadsheets for statistical, relational, and graphical analyses of business data.
- b. Students will *demonstrate* knowledge of Enterprise Resource Planning (ERP) system functions in support of business decisions.
- c. Students will *demonstrate* competence in the integration of software functions for the professional and effective electronic communication of ideas.
- d. Students will *identify* appropriate technology for support of business analysis and decisions.

**5. Ethical Decision-making.** *Each student can identify and evaluate ethical dilemmas and corporate responsibility in business situations and effectively communicate defensible solutions.*

- a. Students will *identify* an ethical dilemma in a business case, and *propose* and *defend* alternative courses of action.
- b. Students will *demonstrate* an understanding of the legal environment of business.
- c. Students will *identify* the difference between legal and ethical decision-making.

Graduates of the business administration program, in any of the concentrations, also are prepared for graduate work in business administration, accounting, finance, information technology, marketing, economics and law. To assist students interested in pursuing graduate study in a business field, the Department maintains links to graduate programs on its web page and provides advisement to students interested in this pursuit.

Note: The Bachelor of Science in Business Administration has had major programmatic changes implemented in the Fall semester 2010. Students matriculating into the Business & Economics Department prior to that date should consult an earlier catalogue.

- |                                   |  |
|-----------------------------------|--|
| I. General Education Requirements | 42 sem. hrs.   |
| A. Skills                         | 12 sem. hrs.   |
| ENGL101                           | College Writing Skills (3)   |
| ENGL102                           | Specialized College Writing and Research Skills (3)                                      |
| MATH150                           | Applied Mathematics for Business (3)*  |
| CSCI104                           | Essentials of Computing I (3)  |
|                                   | * Management Information Systems students take MATH208 Essentials of Calculus.           |
| B. Core                           | 21 sem. hrs.   |
|                                   | Artistic Expression (3)  |
|                                   | World Civilizations (3)  |
|                                   | American Civilizations (3)   |
|                                   | (Forensic Accounting and Fraud Examination students take POLI201 American Government)    |
|                                   | Human Behavior (3)   |
|                                   | Cultural Diversity and Social Pluralism (3)  |
|                                   | (Forensic Accounting and Fraud Examination students take SOC100 Principles of Sociology) |
|                                   | Ethics (3)   |
|                                   | All students should take PHIL240 Introduction to Contemporary Moral Issues (3)           |
|                                   | Natural Science (3)  |
| C. Distribution                   | 9 sem. hrs.  |
|                                   | Humanities and Fine Arts (3)   |
|                                   | ENGL370 Business English is used to meet the Humanities and Fine Arts requirement        |
|                                   | Social and Behavioral Sciences (6)   |
|                                   | ECON220 is used to meet the Social and Behavioral Science Distribution requirement.      |
|                                   | Science and Mathematics (3)  |
|                                   | MATH260 is used to meet the Science and Mathematics Distribution requirement.            |

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|---|---|
| II. Business Requirements                           | 33 sem. hrs.  |
| A. Business Foundation                              | 18 sem. hrs.  |
|   | (To be completed by all students. A minimum of 3 of these courses, not including BUAD000, must be taken prior to admission to the concentrations of Accounting or Forensic Accounting and Fraud Examination, Comprehensive Business Administration, Financial Services, Management Information Systems and Marketing) |
| ACCT215   | Principles of Accounting I (3)  |
| ACCT220   | Principles of Accounting II (3)   |
| BUAD000   | Business Primer (0)   |
| BUAD160   | Business in Society (3)   |
| BUAD260   | Business Law I (3)  |
| ECON220   | Principles of Microeconomics (3)**  |
| ECON225   | Principles of Macroeconomics (3)  |
| QUAN340   | Statistics for Business and Economics (3)   |
|   | ** Taken as a General Education course (Distribution: Social and Behavioral Sciences)   |
| B. Business Requisites                              | 15 sem. hrs.  |
|   | (To be completed by all students following admission to their concentration)  |
| BUAD001   | Career Preparation Seminar (0)  |
| BUAD320   | Information Resource Management (3)   |
| BUAD475   | Business Decision Making (3)  |
| FIN300  | Principles of Finance (3)   |
| MGMT300   | Principles of Management (3)  |
| MKTG300   | Principles of Marketing (3)   |
| III. Concentration Requirements                     | 24-48 sem. hrs.   |
|   | (students must choose one or more concentrations)   |
| A. <b>Accounting</b>                                | 24 sem. hrs.  |
| ACCT315   | Intermediate Accounting I (3)   |
| ACCT320   | Intermediate Accounting II (3)  |
| ACCT325   | Managerial Accounting (3)   |
| ACCT330   | Federal Individual Income Taxation (3)  |
| ACCT400   | Auditing I (3)  |
| ACCT420   | Advanced Accounting (3)   |
| BUAD365   | Business Law II (3)   |
|   | Any 3 semester hours of 310 or higher courses not elsewhere required with the following prefixes: ACCT, BUAD, ECON, FIN, MGMT, MKTG. (3)  |
| B. <b>Forensic Accounting and Fraud Examination</b> | 48 sem. hrs.  |
| Accounting Requirements                             | 24 sem. hrs.  |
| ACCT315   | Intermediate Accounting I (3)   |
| ACCT320   | Intermediate Accounting II (3)  |
| ACCT325   | Managerial Accounting (3)   |
| ACCT330   | Federal Individual Income Taxation (3)  |
| ACCT400   | Auditing I (3)  |
| ACCT420   | Advanced Accounting (3)   |
| ACCT430   | Forensic Accounting (3)   |
| BUAD365   | Business Law II (3)   |
| Criminal Justice Requirements:                      | 24 sem. hrs.  |
| CRIM100   | Introduction to Criminal Justice (3)  |
| CRIM321   | Organized Crime (3)   |
| CRIM340   | Criminal Investigation (3)  |
| CRIM430   | White Collar Crime (3)  |
| CRIM450   | Comp. Crime & Crim. Just. (3)   |
| CRIM469   | Criminal Procedure and Evidence (3)   |
| CRIM485   | Fin. Crimes & Enforcement (3)   |
|   | Note: Changes were made in the Forensic Accounting concentration effective in Fall 2013. Students matriculating prior to Fall 2013 should consult an earlier catalogue.   |
| C. <b>Comprehensive Business Administration</b>     | 24 sem. hrs.  |
|   | One upper-level (310 or above) course not elsewhere required in each of the following areas:  |
|   | Economics (ECON) (3)  |
|   | Finance (FIN) (3)   |
|   | Management (MGMT) (3)   |
|   | Marketing (MKTG) (3)  |

Any 12 semester hours of 310 or higher courses not elsewhere required with the following prefixes: ACCT, BUAD, ECON, FIN, MGMT, MKTG.

- D. **Financial Services** 24 sem. hrs.
  - ACCT330 Federal Individual Income Taxation (3)
  - ECON345 Money and Banking (3)
  - FIN360 Personal Financial Planning (3)
  - FIN400 Financial Investment Analysis (3)
  - FIN430 Retirement Planning and Employment Benefits (3)
  - FIN440 Estate Planning (3)
  - FIN475 Financial Plan Development (3)
  - MKTG390 Professional Selling (3)

Note: Changes were made in the Financial Services major effective January 1, 2012. Students matriculating prior to January 1, 2012 should consult an earlier catalogue.

- E. **Management Information Systems (MIS)** 42 sem. hrs.
  - Business Requirement: 18 sem. hrs.
  - Any combination of courses at the 310 or higher level not elsewhere required with the following prefixes: ACCT, BUAD, ECON, FIN, MGMT, MKTG. Must include 3 of the following 4 courses: ACCT325, MGMT350, MGMT355 and MGMT370.

Computer Science Requirements: 24 sem. hrs.

- CSCI125 Intro. to Computer Science (3)
- CSCI130 Principles of Programming I (3)
- CSCI230 Principles of Programming II (3)
- CSCI313 Data Base Management Systems (3)
- CSCI Electives (12 SH): 9 SH must be CSCI300 level or higher, not elsewhere required.

Note: Changes were made in the Management Information Systems concentration effective in Summer 2014. Students matriculating prior to Summer 2014 should consult an earlier catalogue.

- F. **Marketing** 24 sem. hrs.
  - MKTG320 Advertising and Promotion (3)
  - MKTG340 Consumer Behavior (3)
  - MKTG410 Marketing Research (3)
  - MKTG475 Marketing Analysis and Planning (3)

Two courses not elsewhere required to be selected from 310 or higher level MKTG courses. (6)

Nine semester hours of courses at the 310 or higher level not elsewhere required with the following prefixes: ACCT, BUAD, ECON, FIN, MGMT, MKTG. (9)\*\*\*\*

\*\*\*\*No more than 3 semester hours may be MKTG.

Note: Changes were made in the Forensic Accounting concentration effective in Fall 2013. Students matriculating prior to Fall 2013 should consult an earlier catalogue.

- IV. Free Electives\*\*\*\*\* 0 or 18 sem. hrs.
  - Accounting, Comprehensive Business Administration and Financial Services have 21 semester hours of free electives.
  - Forensic Accounting and Fraud Examination has no free electives
  - Marketing has 18 semester hours of free electives.
  - Management Information Systems has 3 semester hours of free electives.

\*\*\*\*\* To be eligible for an internship, a student must have earned 60 credits with a minimum of 15 of those credits taken at Edinboro University, and including a minimum of 9 credits in Section III of the B.S. Business Administration Curriculum requirements. A QPA of at least 2.6 in his/her major and 2.4 overall is required. Additional information on internship requirements is available in the Department office (Hendricks 215B). Free electives credits are used for internships.

TOTAL 120 sem. hrs.

**BACHELOR OF SCIENCE – BUSINESS ADMINISTRATION**  
(Suggested Eight-Semester Sequence)

**ACCOUNTING, COMPREHENSIVE BUSINESS ADMINISTRATION, FINANCIAL SERVICES, MARKETING**  
(First four Semesters are identical for these concentrations)

**First Semester**

BUAD000	Business Primer (0)
BUAD160	Business in Society (3)
CSCI104	Essentials of Computing I (3) or Discipline-specific Computer Competency Course
	College Writing Skills (3)
	Applied Mathematics for Business (3)
	Core 6 Ethics course with PHIL240 preferred
	TOTAL 15 sem. hrs.

**Second Semester**

ECON220	Principles of Microeconomics (3)
ENGL102	Specialized College Writing and Research Skills (3)
	Three General Education Core Courses (9)
	TOTAL 15 sem. hrs.

**Third Semester**

ACCT215	Principles of Accounting (3)
ECON225	Principles of Macroeconomics (3)
ENGL370	Business English (3)
MATH260	Elements of Statistics (3)
	One General Education Core Course (3)
	TOTAL 15 sem. hrs.

**Fourth Semester**

ACCT220	Principles of Accounting II (3)
BUAD260	Business law (3)
QUAN340	Statistics for Business & Economics (3)
	Two General Education Core Courses (6)
	TOTAL 15 sem. hrs.

**ACCOUNTING CONCENTRATION**

**Fifth Semester**

ACCT315	Intermediate Accounting I (3)
ACCT330	Federal Individual Income Taxation (3)
MGMT300	Principles of Management (3)
MKTG300	Principles of Marketing (3)
	One General Education Core Course (3)
	TOTAL 15 sem. hrs.

**Sixth Semester**

ACCT320	Intermediate Accounting II (3)
ACCT325	Managerial Accounting (3)
BUAD001	Career Preparation Seminar: Business (0)
BUAD365	Business Law II (3)
FIN300	Principles of Finance (3)
BUAD320	Information Resource Management (3)
	TOTAL 15 sem. hrs.

An internship (3 to 15 credits) can be taken by those students meeting the internship requirements. Internships typically (but not always) are taken in the summer prior to the senior year or during one semester of the senior year (semester 7 or 8). Free electives credits are used for internships. The recommended sequence of courses is adjusted to accommodate internship credits.



**Seventh Semester**

ACCT400	Auditing I (3)	
BUAD475	Business Decision Making (3)	
	Free Electives (9)	
	<b>TOTAL</b>	15 sem. hrs.

**Eighth Semester**

ACCT420	Advanced Accounting (3)	
	One Upper-level Business Elective (3)	
	Free Electives (9)	
	<b>TOTAL</b>	15 sem. hrs.

**COMPREHENSIVE BUSINESS ADMINISTRATION  
CONCENTRATION****Fifth Semester**

FIN300	Principles of Finance (3)	
MGMT300	Principles of Management (3)	
MKTG300	Principles of Marketing (3)	
	Free Elective (6)	
	<b>TOTAL</b>	15 sem. hrs.

**Sixth Semester**

BUAD001	Career Preparation Seminar: Business (0)	
BUAD320	Information Resource Management (3)	
	One Upper-level FIN, MGMT, MKTG, and ECON Course (9)	
	Free Elective (3)	
	<b>TOTAL</b>	15 sem. hrs.

An internship (3 to 15 credits) can be taken by those students meeting the internship requirements. Internships typically (but not always) are taken in the summer prior to the senior year or during one semester of the senior year (semester 7 or 8). Free electives credits are used for internships. The recommended sequence of courses is adjusted to accommodate internship credits.

**Seventh Semester**

MGMT310	Comp Management or higher (3)	
	Two Upper-level Business Elective Courses (6)	
	Free Electives (6)	
	<b>TOTAL</b>	15 sem. hrs.

**Eighth Semester**

BUAD475	Business Decision Making (3)	
	Two Upper-level Business Electives (6)	
	Free Electives (6)	

**TOTAL** 15 sem. hrs.

**FINANCIAL SERVICES CONCENTRATION****Fifth Semester**

ACCT330	Federal Individual Income Taxation (3)	
FIN300	Principles of Finance (3)	
MGMT300	Principles of Management (3)	
MKTG300	Principles of Marketing (3)	
	Free Elective (3)	
	<b>TOTAL</b>	15 sem. hrs.

**Sixth Semester**

BUAD001	Career Preparation Seminar: Business (0)	
BUAD320	Information Resource Management (3)	
ECON345	Money & Banking (3)	
FIN360	Personal Financial Planning (3)	
FIN400	Financial Investment Analysis (3)	
	Free Elective (3)	
	<b>TOTAL</b>	15 sem. hrs.

An internship (3 to 15 credits) can be taken by those students meeting the internship requirements. Internships typically (but not always) are taken in the summer prior to the senior year or during one semester of the senior year (semester 7 or 8). Free electives credits are used for internships. The recommended sequence of courses is adjusted to accommodate internship credits.

**Seventh Semester**

FIN430	Retirement Planning and Employee Benefits (3)	
FIN440	Estate Planning (3)	
MKTG390	Professional Selling (3)	
	Free Electives (6)	
	<b>TOTAL</b>	15 sem. hrs.

**Eighth Semester**

BUAD475	Business Decision Making (3)	
FIN475	Financial Plan Development (3)	
	Free Electives (9)	
	<b>TOTAL</b>	15 sem. hrs.

**MARKETING CONCENTRATION****Fifth Semester**

FIN300	Principles of Finance (3)	
MGMT300	Principles of Management (3)	
MKTG300	Principles of Marketing (3)	
	Free Elective (6)	
	<b>TOTAL</b>	15 sem. hrs.

**Sixth Semester**

BUAD001	Career Preparation Seminar (0)	
BUAD320	Information Resource Management (3)	
MKTG340	Consumer Behavior (3)	
	One Upper Level Marketing Course (3)	
	One Upper-level Required Related Business Course (3)	
	Free Elective (3)	
	<b>TOTAL</b>	15 sem. hrs.

An internship (3 to 15 credits) can be taken by those students meeting the internship requirements. Internships typically (but not always) are taken in the summer prior to the senior year or during one semester of the senior year (semester 7 or 8). Free electives credits are used for internships. The recommended sequence of courses is adjusted to accommodate internship credits.

**Seventh Semester**

BUAD475	Business Decision Making (3)	
MKTG320	Advertising and Promotion (3)	
MKTG410	Marketing Research	
	One upper level Required Related Business Course (3)	
	Free Elective (3)	
	<b>TOTAL</b>	15 sem. hrs.

**Eighth Semester**

MKTG475	Marketing Analysis and Planning (3)	
	Two Upper-level Required Related Business Courses (6)	
	One upper level Marketing Course (3)	
	Free Electives (9)	
	<b>TOTAL</b>	15 sem. hrs.

These are the *recommended* course sequences necessary to complete the Bachelor of Science in Business Administration degree requirements in eight semesters. The student should meet with his/her academic advisor for individualized advice on course sequencing. **Academic advisors can only advise; meeting graduation requirements is the student's responsibility.**

Students whose high school mathematics coursework has not prepared them for MATH150 Applied Mathematics for Business must take MATH100 Intermediate Algebra as a prerequisite. Please contact the Mathematics and Computer Science Department for more information. Most upper-level concentration-specific courses are offered only one semester a year (i.e. either only in the fall semester or only in the spring semester). This recommended course sequence assumes the odd numbered semesters are fall semesters and the even numbered semesters are spring semesters. Some courses are offered on once every two years and students should consult with the student's academic advisor for further information..

Many first-semester freshmen are more comfortable taking only 12 semester hours their first semester in college. This is acceptable and a student still can complete the degree requirements in eight semesters providing he/she adds three semester hours to a later semester.

Note: Transfer students must complete 50 percent of major credits at Edinboro University

### BACHELOR OF SCIENCE – BUSINESS ADMINISTRATION FORENSIC ACCOUNTING and FRAUD EXAMINATION FOCUS

#### (Suggested Eight-Semester Sequence)

#### First Semester

BUAD000	Business Primer (0)
BUAD160	Business in Society (3)
CSCI104	Essentials of Computing I (3) or Discipline-specific Computer Competency Course
ENGL101	College Writing Skills (3)
MATH150	Applied Mathematics for Business (3)
PHIL240	Introduction to Contemporary Moral Issues (3)
TOTAL 15 sem. hrs.	

#### Second Semester

CRIM100	Introduction to Criminal Justice (3)
ECON220	Principles of Microeconomics (3)
ENGL102	Specialized Writing and Research Skills (3)
POLI201	American Government (3) General Education Course (3)
TOTAL 15 sem. hrs.	

#### Third Semester

ACCT215	Principles of Accounting I (3)
ECON225	Principles of Macroeconomics (3)
ENGL370	Business English (3)
MATH260	Elements of Statistics (3)
SOC100	Principles of Sociology (3)
TOTAL 15 sem. hrs.	

#### Fourth Semester

ACCT220	Principles of Accounting II (3)
BUAD260	Business Law I (3)
QUAN340	Statistics for Business and Economics (3) Two General Education Core Courses (6)
TOTAL 15 sem. hrs.	

#### Fifth Semester

ACCT315	Intermediate Accounting I (3)
CCT330	Federal Individual Income Taxation (3)
CRIM340	Criminal Investigation (3)
MGMT300	Principles of Management (3)
MKTG300	Principles of Marketing (3)
TOTAL 15 sem. hrs.	

#### Sixth Semester

ACCT320	Intermediate Accounting II (3)
ACCT325	Managerial Accounting (3)
BUAD001	Career Preparation Seminar: Business (0)
BUAD365	Business Law II (3)
FIN300	Principles of Finance (3)
CRIM450	Criminal Investigation (3)
TOTAL 15 sem. hrs.	

#### Seventh Semester

ACCT400	Auditing I (3)
BUAD320	Information Resource Management (3)
CRIM321	Organized Crime and Corruption (3)
CRIM430	White Collar Crime (3)
	One General Education Core Courses (3)
TOTAL 15 sem. hrs.	

#### Eighth Semester

ACCT420	Advanced Accounting (3)
ACCT430	Forensic Accounting (3)
BUAD475	Business Decision Making (3)
CRIM469	Criminal Procedure and Evidence (3)
CRIM485	Financial Crimes and Enforcement (3)
TOTAL 15 sem. hrs.	

This is the *recommended* course sequence necessary to complete the Bachelor of Science in Business Administration degree requirements with a concentration in Forensic Accounting and Fraud Examination in eight semesters. The student should meet with his/her academic advisor for individualized advice on course sequencing. **Academic advisors can only advise; meeting graduation requirements is the student's responsibility.**

Students whose high school mathematics coursework has not prepared them for MATH150 Applied Mathematics for Business must take MATH100 Intermediate Algebra as a prerequisite. Please contact the Mathematics and Computer Science Department for more information.

Most upper-level concentration-specific courses are offered only one semester a year (i.e. either only in the fall semester or only in the spring semester). This recommended course sequence assumes the odd numbered semesters are fall semesters and the even numbered semesters are spring semesters. Some courses are offered on once every two years and students should consult with the student's academic advisor for further information..

Many first-semester freshmen are more comfortable taking only 12 semester hours their first semester in college. This is acceptable and a student still can complete the degree requirements in eight semesters providing he/she adds three semester hours to a later semester.

Note: Transfer students must complete 50 percent of major credits at Edinboro University.

### MANAGEMENT INFORMATION SYSTEMS CONCENTRATION (Suggested Eight-Semester Sequence)

#### First Semester

BUAD160	Business in Society (3)
CSCI104	Essentials of Computing I (3) or Discipline-specific Computer Competency Course
ENGL101	College Writing Skills (3)
MATH208	Essentials of Calculus (3)
PHIL240	Introduction to Contemporary Moral Issues (3)
TOTAL 15 sem. hrs.	

**Second Semester**

BUAD000	Business Primer (0)
CSCI125	Introduction to Computer Science (3)
CSCI130	Principles of Programming I (3)
ECON220	Principles of Microeconomics (3)
ENGL102	Specialized College Writing and Research Skills (3)
	General Education Course (3)
	TOTAL 15 sem. hrs.

**Third Semester**

ACCT215	Principles of Accounting I (3)
CSCI230	Principles of Programming II (3)
ECON225	Principles of Macroeconomics (3)
ENGL370	Business English (3)
MATH260	Elements of Statistics (3)
	TOTAL 15 sem. hrs.

**Fourth Semester**

ACCT220	Principles of Accounting II (3)
CSCI313	Data Base Management Systems (3)
BUAD260	Business Law I (3)
QUAN340	Statistics for Business and Economics (3)
	One General Education Core Course (3)
	TOTAL 15 sem. hrs.

**Fifth Semester**

FIN300	Principles of Finance (3)
MGMT300	Principles of Management (3)
MKTG300	Principles of Marketing (3)
	One CSCI Elective (3)
	One General Education Core Course (3)
	TOTAL 15 sem. hrs.

**Sixth Semester**

BUAD001	Career Preparation Seminar: Business (0)
BUAD320	Information Resource Management (3)
	Two Upper-level Business Requirements (6)
	Two General Education Core Courses (6)
	TOTAL 15 sem. hrs.

An internship (3 to 15 credits) can be taken by those students meeting the internship requirements. Internships typically (but not always) are taken in the summer prior to the senior year or during one semester of the senior year (semester 7 or 8). Free elective credits are used for internships. The recommended sequence of courses is adjusted to accommodate internship credits.

**Seventh Semester**

	Two CSCI Electives (6)
	Two Upper-level Business Electives (6)
	One General Education Core Course (3)
	TOTAL 15 sem. hrs.

**Eighth Semester**

BUAD475	Business Decision Making (3)
	One CSCI Elective (3)
	Two Upper-level Business Requirements Courses (6)
	Free Elective (3)
	TOTAL 15 sem. hrs.

This is the *recommended* course sequence necessary to complete the Bachelor of Science in Business Administration degree requirements with a concentration in Management Information Systems in eight semesters. The student should meet with his/her academic advisor for individualized advice on course sequencing. **Academic advisors can only advise; meeting graduation requirements is the student's responsibility.**

Students whose high school mathematics coursework has not prepared them for MATH208 Essentials of Calculus must take MATH105 College Algebra as a prerequisite. Please contact the Mathematics and Computer Science Department for more information.

Most upper-level concentration-specific courses are offered only one semester a year (i.e. either only in the fall semester or only in the spring semester). This recommended course sequence assumes the odd numbered semesters are fall semesters and the even numbered semesters are spring semesters. Some courses are offered on once every two years and students should consult with the student's academic advisor for further information.

Many first-semester freshmen are more comfortable taking only 12 semester hours their first semester in college. This is acceptable and a student still can complete the degree requirements in eight semesters providing he/she adds three semester hours to a later semester.

Note: Transfer students must complete 50 percent of major credits at Edinboro University.

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## Bachelor of Science Degree

### Economics

This program is designed to provide a foundation for employment in government agencies, business firms, or research institutes which involves the collection and analysis of economic data used for the formation of public economic policies or business decisions. The program also provides a foundation for graduate study, not only in economics but also in related social sciences and business. This degree may lead to careers in the fields of public economic policy, business economics or international economics. A GPA of 2.25 in the major and overall is required to graduate with a Bachelor of Science Degree in Economics.

#### BS Economics Learning Goals & Objectives

- Students will describe fundamental economic concepts.
    - Students will apply the concept of elasticity of demand.
    - Students will apply the supply/demand models for the analysis of economic events.
    - Student will analyze the concept of externalities in macro and micro applications.
    - Students will interpret exchange rates and *describe* their impact on global trade.
  - Students will effectively communicate economic ideas in writing.
  - Students will demonstrate an understanding of core economic theories.
  - Students will evaluate an economic problem using quantitative methods.
  - Students will display critical and analytical thinking skills by applying economic models to real world and hypothetical situations.
- I. General Education Requirements 42 sem. hrs.
- A. Skills 12 sem. hrs.
- |         |   |
|---------|---|
| ENGL101 | College Writing Skills (3)  |
| ENGL102 | Specialized Writing and Research (3)  |
| MATH150 | Math for Business (3)   |
| CSCI104 | Essentials of Computing I (3) or Discipline-specific Computer Competency Course |

B. Core	21 sem. hrs.	Artist Expression (3) World Civilizations (3) American Civilizations (3) Human Behavior (3) Cultural Diversity and Social Pluralism (3) Ethics (3) All students should take PHIL240 Introduction to Contemporary Moral Issues Natural Science (3)
C. Distribution	9 sem. hrs.	Humanities and Fine Arts (3) Social and Behavioral Sciences (3) Science and Mathematics (3) MATH260 is used to meet the Science and Mathematics Distribution requirement
II. Economics Courses	30 sem. hrs.	
A. Required Economics Courses	15 sem. hrs.	ECON225 Principles of Macroeconomics (3) ECON220 Principles of Microeconomics (3) ECON319 Intermediate Economic Theory: Macro (3) ECON320 Intermediate Economic Theory: Micro (3) QUAN340 Statistics for Business and Economics (3)
B. Economics Electives	15 sem. hrs.	Any combination of 310 or higher ECON courses not elsewhere required.
III. Required Related Courses	12 sem. hrs.	ACCT215 Principles of Accounting I (3) ACCT220 Principles of Accounting II (3) FIN300 Principles of Finance (3) MATH 260 Elements of Statistics (3)
IV. Free Electives*	36 sem. hrs.	* To be eligible for an internship, a student must have earned 60 credits with a minimum of 15 of those credits taken at Edinboro University, and including a minimum of 9 credits in upper level (300 or above) economics electives courses). A QPA of at least 2.6 in his/her major and 2.4 overall is required. Free electives credits are used for internships.
	<b>TOTAL</b>	<b>120 sem. hrs.</b>

**BACHELOR OF SCIENCE – ECONOMICS**  
**(Suggested Eight-Semester Sequence)**

**First Semester**

CSCI104	Essentials of Computing I (3)
ECON225	Principles of Macroeconomics (3)
ENGL101	College Writing Skills (3)
MATH150	Math for Business (3)
BUAD000	Business Primer (0)
	One General Education Core Course (3)
	<b>TOTAL</b> 15 sem. hrs.

**Second Semester**

ECON220	Principles of Microeconomics (3)
ENGL102	Specialized College Writing and
Research Skills (3)	
MATH260	Elements of Statistics (3)
	One General Education Core Course (3)
	Free Elective (3)
	<b>TOTAL</b> 15 sem. hrs.

**Third Semester**

ACCT215	Principles of Accounting I (3)
ECON319	Intermediate Economic Theory: Macro (3)
QUAN340	Statistics for Business and Economics (3)
	Two General Education Core Courses (6)
	<b>TOTAL</b> 15 sem. hrs.

**Fourth Semester**

ACCT220	Principles of Accounting II (3)
ECON320	Intermediate Economic Theory: Micro (3)
	One General Education Core Courses (3)
	Free Electives (6)
	<b>TOTAL</b> 15 sem. hrs.

**Fifth Semester**

FIN300	Principles of Finance (3)
	One Upper-level Economics Elective (3)*
	One General Education Core Courses (3)
	Free Electives (6)
	<b>TOTAL</b> 15 sem. hrs.

**Sixth Semester**

	Two Upper-level Economics Elective (6)*
	One General Education Distribution Course (3)
	Free Electives (6)
	<b>TOTAL</b> 15 sem. hrs.

An internship (1 to 15 credits) can be taken by those students meeting the internship requirements. Internships typically (but not always) are taken in the summer prior to the senior year or during one semester of the senior year (semester 7 or 8). Free electives credits are used for internships. The recommended sequence of courses is adjusted to accommodate internship credits.

**Seventh Semester**

	One Upper-level Economics Elective (3)
	Free Electives (12)
	<b>TOTAL</b> 15 sem. hrs.

**Eighth Semester**

	One Upper-level Economics Elective (3)
	Free Electives (12)
	<b>TOTAL</b> 15 sem. hrs.

This is the *recommended* course sequence necessary to complete the Bachelor of Science in Economics degree requirements in eight semesters. The student should meet with his/her academic advisor for individualized advice on course sequencing. **Academic advisors can only advise; meeting graduation requirements is the student's responsibility.**

Students whose high school mathematics coursework has not prepared them for MATH150 Applied Mathematics for Business must take MATH100 Intermediate Algebra as a prerequisite. Please contact the Mathematics and Computer Science Department for more information. Most upper-level (310 or above) Department courses are offered only one semester a year (i.e., either only in the fall semester or only in the spring semester). Some upper-level (310 or above) Department courses are offered once every two years, therefore, students should meet with their advisor to discuss course sequencing. This recommended course sequence assumes the odd numbered semesters are fall semesters and the even numbered semesters are spring semesters.

Many first-semester freshmen are more comfortable taking only 12 semester hours their first semester in college. This is acceptable and a student still can complete the degree requirements in eight semesters providing he/she adds three semester hours to a later semester.

Note: Transfer students must complete a minimum of 27 credits in the Business Administration and Economics Department at Edinboro University.

\*Numbered 310 or above



# School of Education

## Mission

The mission of the School of Education at Edinboro University is to prepare highly qualified professionals who meet the needs of P-12 schools, community agencies, health and fitness organizations, and the broader workforce. Clinical experiences for candidates are designed to assist agencies and to help public schools meet the challenges of state and federal accountability measures while providing optimum learning experiences for students. Program development is based on a philosophy of continuous improvement through ongoing assessment. Candidates are encouraged to promote the ideals of American citizenship and to improve the quality of life for all people in a diverse and technologically sophisticated society.

## Accreditation

The School of Education and all teacher certification programs within the University are accredited by the Pennsylvania Department of Education and by NCATE, the National Council for Accreditation of Teacher Education. (NCATE was recently re-named to Council for Accreditation for Education Preparation (CAEP).

## The NCATE Unit

The NCATE Unit is comprised of all programs and faculty in the School of Education as well as faculty and programs in art education, music education, and speech-language pathology. The Dean of Education is the head of the unit and, convenes unit faculty on a regular basis.

## Admission to Teacher Education

The procedures for admission and retention in teacher education are consistent with current state regulations and ensure that graduates meet the quality standards advocated at state and national levels for the preparation of teachers. These procedures are applicable to all initial teacher certification programs.

Pennsylvania Department of Education standards for the preparation of teachers, commonly referred to as *Chapter 354*, require a formal admission process that allows a student with a major in teacher education to take advanced methods classes and begin student teaching. This process is referred to as *candidacy*. To become a teacher candidate, a student must have a minimum of 48 hours of undergraduate credits and meet all of the conditions listed below.

1. Earned a minimum undergraduate cumulative quality point average of 2.80.
2. Achieved passing scores on the following PAPA-exams: reading, writing, and mathematics.
3. Successfully completed six semester hours of college level mathematics (Math 104, 105, 107, 110, or 210) according to your program of study.
4. Successfully completed nine hours of English, (including English 101, English 102 and a literature course.)
5. Successfully completed SEDU271 Multiculturalism in American Schools.
6. Successfully completed SPED 210 Introduction to Exceptionalities/Special Education.
7. Met with education advisor.
8. If majoring in health and physical education, have completed HPE133 and HPE220, HPE225, or HPE230.
9. Have submitted all required clearances

Students are not eligible to enroll in upper level education courses or the stage II field experience until they have been admitted to candidacy. Students must submit the *Application for Admission to Teacher Candidacy* to the Office of the Dean of Education when all conditions of teacher candidacy have been met. Please attach a copy of your degree evaluation with the application.

## Assessment and Retention

Faculty and administration monitor candidate progress continuously through periodic advising, systematic assessments of knowledge, skills, and dispositions, and semester by semester reviews of grade point average and other program requirements. Students who encounter difficulty with PAPA tests in reading, writing, or mathematics are referred for tutoring and counseling. The individual academic departments which house certification programs are responsible for assisting students who encounter difficulty with Praxis II or PECT tests. Following admission to candidacy, students must maintain a cumulative quality point average of 2.80. If a student's cumulative quality point average falls below 2.80, the student will be dismissed from the program at the discretion of the dean of the School of Education pending recommendations from the student's advisor and department chair.

Students enrolled in programs leading to teacher certification must earn a grade of C or better for each course in their major and for any courses in general education that are required for the major. Unless otherwise specified in the *2012-2014 Undergraduate Catalogue*, this provision applies to all courses in a student's program except for general education requirements and electives that are not dictated by the major.

## Dispositions

In addition to the pedagogical skills and knowledge defined in the standards of NCATE, the Interstate New Teacher Assessment and Support Consortium (INTASC), and the Pennsylvania Department of Education, all candidates in programs for the preparation of school personnel are expected to demonstrate appropriate dispositions. The character traits, attitudes, beliefs, behaviors, and emotional are articulated in the Conceptual framework, in Departmental Disposition Policies, and in the *Pennsylvania Code of Professional Practice and Conduct for Educators* constitute the dispositions for future teachers and related specialists from Edinboro University of Pennsylvania.

Each department which houses programs in teacher preparation has a Dispositions Policy and a Dispositions Committee. These policies can be found on the Unit's NCATE webpage. It is the responsibility of the Departmental Dispositions Committee to provide advice and remedial activities for candidates who are referred by faculty to the committee for failure to demonstrate dispositions appropriate to the teaching profession. If the candidate's dispositions do not improve to the satisfaction of the Departmental Dispositions Committee, the committee – with the approval of the chair of the department – may refer the candidate to the dean of the School of Education along with a written recommendation and rationale. At the discretion of the dean of education, the candidate may be dismissed from the program.

## Admission to Student Teaching

Student teaching represents the culmination of the program of professional preparation. No undergraduate candidate will be considered for the degree or for the recommendation for a teaching certificate who has not completed, under the supervision of Edinboro University, 12 semester hours of student teaching. Applications for student teaching are available in the Office of Certification and Student Teaching.

Student teaching is a full-time commitment in which students are given experience in most of the activities a classroom teacher might encounter. The student is expected to devote full time energy to the student teaching assignment. Careful planning is necessary on the part of students during the first three years of their college careers to complete their program on schedule. Student teaching is to be scheduled during the student's senior year.

The University reserves the right to assign any teacher candidate to schools in the service area according to the best interest of the student, the University, the school, and the program. All assignments are made at off-campus locations. Teacher candidates must assume responsibility for living expenses and transportation arrangements to the schools to which they are assigned.

The student may choose to be graded on a satisfactory-unsatisfactory basis or with a letter grade. Candidates are not encouraged to work full time during the student teaching semester. Any outside employment which interferes with student teaching, could cause the candidate to be withdrawn from student teaching at the discretion of the director of field and student teaching.

To be eligible for student teaching, a candidate must have met all of the following conditions:

1. Maintained a cumulative quality point average of at least 2.80. (Note: minimum QPA requirement for graduation and certification 3.0).
2. Completed at least 96 semester hours of undergraduate credit.
3. Registered, attempted or passed all Praxis, PAPA, or PECT tests required by the Pennsylvania Department of Education for certification in the candidate's subject area.
4. Completed with a C or better all professional education courses required within the individual's curriculum including the Stage 3 Field Experience.
5. Completed with a grade of C or better the course SEDU183, ARED383 or HPE384 (a computer technology course specifically designed for education).
6. Renewed all required clearances and liability insurance and ensure that they are valid until the last day of student teaching.

#### Certification

Following graduation and application for certification, recommendations are made to the Pennsylvania Department of Education for granting the appropriate teaching certificate. All curricula in teacher education are organized to meet or exceed requirements for certification.

The dean of the School of Education, or his/her designee, is the certification officer for Edinboro University. Students must apply for certification online through the PDE TIMS system. Students must meet all of the following conditions in order to be recommended for certification:

1. Have earned a bachelor's degree in an approved program in teacher education or have completed an approved post-baccalaureate certification program.
2. Have a minimum cumulative quality point average of 3.0.
3. Have earned a grade of C or better in student teaching.

Teacher candidates must meet the certification requirements, including testing, that are in effect *at the time at which they apply for certification*.

All Praxis II, or PECT tests required for certification cannot be more than 10 years old at the time of application for certification.

#### NCATE Unit Conceptual Framework

The School of Education has adopted the theme of "Effective Facilitators of Learning" as its conceptual framework. Teacher candidates, related professionals, and all members of the unit employ the theme as the basis on which decisions and plans are made and implemented. The vision of Edinboro University's NCATE Unit is to prepare highly qualified teacher candidates and related professionals who effectively facilitate student learning. Through knowledge, skills, dispositions, experiences, and an understanding of our diverse and technologically sophisticated society, candidates successfully contribute to the future

of their students, to their own professional development, and to the well being of the larger community. Conceptual framework belief statements provide the core of the shared vision across all programs in the School of Education. Candidates in the School of Education:

- embrace diversity
- have solid content knowledge
- exhibit effective pedagogical skills
- understand the learner
- utilize community resources
- engage in lifelong learning
- exhibit informed decision making
- contribute to community
- use motivational and management skills
- integrate technology
- use effective communication skills
- creatively plan, adapt, and assess instruction

All programs are aligned with the appropriate national and state content and pedagogical standards. In addition, all undergraduate programs are aligned with INTASC.

Updated Praxis, PAPA and PECT Pass Rates are published online at this URL: <http://www.edinboro.edu/departments/education/praxis-information/praxis-information-.dot>

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## Counseling, School Psychology, and Special Education Department

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FACULTY: Erik Bentsen, Gary Connell, Adrienne Dixon-McCullum, Joel Erion, Jean Faieta, Juanita Kasper, Tammy Mitten, Susan Norton, Susan Packard, Katherine Robbins-Hunt, Edward Snyder

### Associate of Arts Degree

#### Human Services: Developmental Disability Specialist

The Associate of Arts (A.A.) degree in the area of Developmental Disabilities Specialist is a two-year, individualized program that prepares students to work with people with disabilities in various public and private sectors. A person receiving this degree would be qualified to work as a trained instructional assistant in public or private schools, residential treatment programs, day care centers, early intervention programs, and other programs that provide services to people with disabilities. Students in the developmental disabilities program select from a wide variety of courses when designing their program of study. Prescribed professional courses provide extensive, relevant information and multiple hands-on field experiences. For their formal practicum, students work directly with professionals in a setting for children or adults with disabilities. The courses and credits earned through this program also apply toward a bachelor's degree (B.S.Ed.) and teacher certification in special education, should a student later choose to pursue the more advanced degree.

I. General Education Requirements	30 sem. hrs.
A. Skills	12 sem. hrs.
ENGL101	College Writing Skills (3)
ENGL102	Writing and Research Skills (3)
MATH110	Math Reasoning I (3)
SEDU183	Tech for Teaching and Learning (3)

- B. Core 18 sem. hrs.  
 Must choose one approved course from six of the seven core categories.  
 See table below.
1. Artistic Expression (3)
  2. World Civilizations (3)
  3. American Civilizations (3)
  4. Human Behavior (3)  
 PSYC101 Intro to Psychology
  5. Cultural Diversity /Soc Pluralism (3)  
 SEDU271 Multicult Am Schools
  6. Ethics (3)
  7. Natural Science (3)

If you are considering eventually pursuing teacher certification through our B.S. Ed. program Special Education P-8 and Early Childhood Education P-4, the following required courses will meet certain Core requirements:

Core 1	Literature	
Core 2	GEOG101	World Geography
Core 3	HIST 261	History of US I or
	HIST262	History of US II
Core 4	PSYC101	Introduction to Psychology
Core 5	SEDU271	Multiculturalism in American Schools
Core 7	PHYS101	Physical Science

II. Area of Specialization 30 sem. hrs.

- A. Nature and Needs
- |                    |   |
|--------------------|---|
| ECED 110           | Child Development I (3)   |
| ECED 150           | Child Development II (3)  |
| ECED 244           | Building Partnerships that Support Young Children (3)           |
| ECED 270           | Literacy Foundations Grades 1-4 (3)                             |
| SPED210            | Introduction to Exceptionalities (3)                            |
| SPED240            | Managing Inclusive Learning Environments (3)                    |
| SPED320            | High Incidence Disabilities (3)                                 |
| SPED340            | Low Incidence Disabilities (3)                                  |
| SPED350            | Language and Literacy Skills for Students with Disabilities (3) |
| SPED370            | Adaptations and Accommodations in Inclusive Classrooms (3)      |
| TOTAL 60 sem. hrs. |   |

**ASSOCIATE OF ARTS – HUMAN SERVICES-  
 DEVELOPMENTAL DISABILITIES SPECIALIST  
 (Suggested Four-Semester Sequence)**

**First Semester**

- |                    |   |
|--------------------|---|
| ECED110            | Child Development I (3)                           |
| ENGL101            | College Writing Skills (3)                        |
| MATH110            | Math Reasoning I (3)                              |
| Core 1             | Artistic Expression: (Literature recommended) (3) |
| Core 4             | Human Behavior: PSYC101 required (3)              |
| TOTAL 15 sem. hrs. |   |

**Second Semester**

- |                    |  |
|--------------------|--|
| ENGL102            | Writing and Research Skills (3)                            |
| ECED150            | Child Development II (3)                                   |
| SEDU183            | Educational Technology/Computer Literacy (3)               |
| SPED210            | Introduction to Exceptionalities and Special Education (3) |
| Core 2             | World Civilizations: (GEOG 101 recommended) (3)            |
| TOTAL 15 sem. hrs. |  |

**Third Semester**

- |                    |   |
|--------------------|---|
| ECED244            | Building partnerships that Support Young Children (3) |
| ECED270            | Literacy Foundations Grades 1-4 (3)                   |
| SPED240            | Managing Inclusive Learning Environments (3)          |
| Core 3             | American Civilizations (HIST 262 recommended) (3)     |
| Core 5             | Cultural Diversity: SEDU 271 (Required) (3)           |
| TOTAL 15 sem. hrs. |   |

**Fourth Semester**

- |                    |   |
|--------------------|---|
| SPED320            | High Incidence Disabilities (3)                                 |
| SPED340            | Low Incidence Disabilities (3)                                  |
| SPED350            | Language and Literacy Skills for Students with Disabilities (3) |
| SPED370            | Adaptations and Accommodations in Inclusive Classrooms (3)      |
| Core 7             | Natural Science: (PHYS 101 recommended) (3)                     |
| TOTAL 15 sem. hrs. |   |

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## Early Childhood and Reading Department

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FACULTY: Linda Best, Lisa Ann Brightman, Kathleen Dailey, Heather Kenney, Karen Lindeman, Virginia L. McGinnis, Mary Jo Melvin, Rosemary A. Omniewski, Sandra Waite-Stupiansky, Kristin Webber.

### Associate of Science Degree

#### Preschool Education

The Department of Early Childhood and Special Education prepares preschool teachers and assistants for the Commonwealth of Pennsylvania in the area of preschool education. Upon completion of 60 credit hours, the candidate is granted an Associate of Science degree in Preschool education

- I. General Education Requirements 24 sem. hrs.
- A. Skills 12 sem. hrs.
- |         |                                 |
|---------|---------------------------------|
| ENGL101 | College Writing Skills (3)      |
| ENGL102 | Writing and Research Skills (3) |
| MATH110 | Math Reasoning I (3)            |
| SEDU183 | Education Tech/Comp. Lit. (3)   |
- B. Core 12 sem. hrs.
1. World Civilizations  
 GEOG101 World Geography (3)
  2. American Civilizations  
 HIST261 U.S. History I (3) Or  
 HIST262 U.S. History II (3)
  3. Human Behavior  
 PSYC101 Introduction Psychology (3)
  4. Cultural Diversity & Social Pluralism  
 SEDU271 Multicultural American Schools (3)



II. ECED Competency Areas		33 sem. hrs.
ECED110	Child Development I (3)	
ECED120	Introduction to Early Childhood Education (3)	
ECED150	Child Development II (3)	
ECED200	Planning, Designing and Maintaining the Early Learning Environment (3)	
ECED210	Play and Active Learning Approaches to ECE (3)	
ECED244	Building Partnerships that Support Young Children (3) <u>PRE-K/K Block with 74 Hours of Field</u>	
ECED341	Language and Literacy (3)	
ECED342	Integrating Math and Science in the Early Years (3)	
ECED343	Creative Expressive Arts (3)	
ECED345	Advocacy and Guidance (3)	
ECED381	Observation Documentation and Assessment in Early Childhood Education (3)	
III. Special Education Competency Area		3 sem. hrs.
SPED210	Introduction to Exceptionalities (3)	
	<b>TOTAL</b>	<b>60 sem. hrs.</b>

### ASSOCIATE OF SCIENCE – PRESCHOOL EDUCATION (Suggested Four-Semester Sequence)

#### First Semester

ENGL101	College Writing Skills (3)*	
MATH110	Mathematical Reasoning I (3)	
PSYC101	Introduction to Psychology (3)*	
SEDU183	Educational Tech/Comp Lit. (3)	
	Other core General Education Course (3)	
	<b>TOTAL</b>	<b>15 sem. hrs.</b>

#### Second Semester

ENGL102	Specialized College Writing and Research (3)	
ECED110	Child Development I (3)	
ECED120	Introduction to ECE (3)	
SPED210	Introduction to Exceptionalities (3)	
	Other core General Education Course (3)	
	<b>TOTAL</b>	<b>15 sem. hrs.</b>

#### Third Semester

ECED150	Child Development II (3)	
ECED200	Planning, Designing and Managing in the Early Childhood Learning Environment (3)	
ECED210	Play and Active Learning Approaches to ECE (6 hours of field) (3)	
ECED244	Building Partnerships That Support Young Children (6 hours of field) (3)	
	Other core General Education Course (3)	
	<b>TOTAL</b>	<b>15 sem. hrs.</b>

#### Fourth Semester

	PreK/K Block ***75 hours of field***	
ECED341	Language and Literacy (3)	
ECED342	Integrating Math and Science (3)	
ECED343	Creative Expressive Arts (3)	
ECED345	Advocacy and Guidance (3)	
ECED381	Observation, Documentation and Assessment in EDE (3)	
	<b>TOTAL</b>	<b>15 sem. hrs.</b>

## Bachelor of Science in Education Degree

### Early Childhood Education

The program in Early Childhood Education prepares candidates to meet the needs of students PreK through grade 4 in schools of the Commonwealth of Pennsylvania. Students are required to meet Edinboro University's guidelines for "Admission to Teacher Candidacy." Upon completion of the competencies in Early Childhood Education and 120 credit hours, the student is awarded a Bachelor of Science in Education degree. After successfully passing the designated national teacher examinations and meeting other Pennsylvania Department of Education requirements, students are recommended to the Commonwealth for teaching certification.

Graduates of the Bachelor of Science in Early Childhood will:

1. Possess foundational understanding about early childhood and American education
2. Understand, select, and implement appropriate instructional strategies to facilitate learning in grades P-4
3. Utilize formative and summative assessment as a process for learning analysis and decision making in the classroom
4. Apply early childhood theory and best practice in clinical experiences associated with pre-professional field experiences and student teaching
5. Recognize and understand the professional, social and ethical responsibilities associated with early childhood education

### CERTIFICATION IN EARLY CHILDHOOD EDUCATION

I. General Education Requirements		45 sem. hrs.
A. Skills		12 sem. hrs.
	ENGL101	College Writing (3)
	ENGL102	Writing and Research (3)
	MATH110	Math Reasoning I (3)
	SEDU183	Education Tech/Comp. (3)
B. Core		21 sem. hrs.
		**Artistic Expression (3)*
		World Civilizations – GEOG101 (3)
		American Civilizations – HIST261 or HIST262 (3)
		Human Behavior – PSYC101 (3)
		Cultural Diversity and Social Pluralism (3)
		***SEDU 271 Multicult Am Schools
		Ethics (3)
		Natural Science – PHYS101 (3)
C. Distribution		12 sem. hrs.
		**Humanities and Fine Arts (3)*
		Social and Behavioral Sciences (3)
		(must be 300 level or above)
		Natural Sciences and Mathematics (6)
		BIOL102 (3)
		**MATH210 Math Reasoning II (3)
II. Professional Education		72 sem. hrs.
A. ECED COMPETENCY AREAS		
	ECED110	Child Development I (3)
	ECED120	Introduction to Early Childhood Education (3)
	ECED150	Child Development II (3)
	ECED200	Plan/Design/ Maintain Early Lrng Envi (3)
	ECED210	Play and Active Learning Approaches to ECE (3)
	ECED244	Bldg Partnerships/Young Children (3)
	ECED270	Literacy Foundations Grades 1-4 (3)

ECED290	Language Arts Grades 1-4 (3)
ECED495	Student Teaching (12)
	<b>Pre-K/K Block</b> with 75 Hours of field
ECED341	Language and Literacy (3)
ECED342	Integrating Math/Science Early Years (3)
ECED343	Creative Expressive Arts (3)
ECED345	Advocacy and Guidance (3)
ECED381	Observ/Doc/Assess Early Childhood Ed (3)
	<b>Primary/Methods Courses Block</b> with 75 Hours of field
ECED340	Methods of Teaching Social Studies (3)
ECED350	Learning and Teaching Math in Grades 1-4 (3)
ECED360	Learning and Teaching Science in Grades 1-4 (3)
ECED370	Differentiated Reading in Grades 1-4 (3)
ECED380	Data Driven Assessment for Student Learning (3)

<b>B. SPECIAL EDUCATION COMPETENCY AREAS</b>	
SPED210	Introduction to Exceptionalities (3)
†SPED370	Adaptations and Accommodations (3)
III. Free Electives	3 sem. hrs.
	<b>TOTAL 120 sem. hrs.</b>

\* English literature course required to be taken in Core 1 or Distribution 1.  
 \*\*Courses are required for candidacy!  
 \*\*\*Fulfills Core 5 for Education majors only  
 † Must be taken in primary methods block

**BACHELOR OF SCIENCE – EARLY CHILDHOOD EDUCATION**  
 (Suggested Eight-Semester Sequence)

<b>First Semester</b>	
PSYC101	Introduction to Psychology (3)
ENGL 101	College Writing Skills (3)
MATH 110	Math Reasoning (3)
SEDU271	Multicultural Am Schools (3)
	General education course (3)
	Freshman Common hour
	<b>TOTAL 15 sem. hrs.</b>
<b>Second Semester</b>	
ECED 110	Child Development I (3)
ECED 120	Introduction to ECE (3)
SPED 210	Introduction to Exceptionalities (3)
ENGL 102	Writing/Research (3)
MATH 210	Mathematical Reasoning II (3)
	<b>TOTAL 15 sem. hrs.</b>
<b>Third Semester</b>	
ECED 150	Child Development II (3)
SEDU 183	Tech for Teach/Learn (3)
	English Literature Course (3)
	General Education Courses (6)
	<b>TOTAL 15 sem. hrs.</b>
<b>Fourth Semester</b>	
ECED 200	Planning, Designing and Managing the EC Learning Environment (3)
ECED 210	Play and Active Learning Approaches to ECE (3)
ECED 244	Building Partnerships that Support Young Children (3)
	General Education Courses (6)
	***Each education course requires six hours of field***
	<b>TOTAL 15 sem. hrs.</b>

<b>Fifth Semester</b>	
<u>PK/K Block:</u>	
ECED 341	Language and Literacy (3)
ECED 342	Integrating Math and Science in the Early Years (3)
ECED 343	Creative Expressive Arts (3)
ECED 345	Advocacies and Guidance (3)
ECED 381	Observation, Documentation and Assessment in ECE 3 credits
	<b>TOTAL 15 sem. hrs.</b>

<b>Sixth Semester</b>	
ECED 270	Literacy Foundations Grades 1-4 (3)
ECED 290	Language Arts Grades 1-4 (3)
	General Education Courses (9)
	*** 270 and 290 must be taken concurrently and have 6 hours of field***
	<b>TOTAL 15 sem. hrs.</b>

<b>Seventh Semester</b>	
<u>Primary Methods Block:</u> Must take all five courses with 75 hours field	
ECED 340	Methods of Teaching Social Studies (3)
ECED 350	Learning and Teaching Math Grades 1-4 (3)
ECED 360	Learning and Teaching Science Grades 1-4 (3)
ECED 370	Differentiating Reading Instruction Grades 1-4 (3)
SPED 370	Adaptations and Accommodations (3)
	<b>TOTAL 15 sem. hrs.</b>

<b>Eighth Semester</b>	
ECED 495	Student Teaching (12)
ECED 380	Data Driven Assessment for Student Learning (3)
	<b>TOTAL 15 sem. hrs.</b>

**CERTIFICATION IN EARLY CHILDHOOD (P-4) AND SPECIAL EDUCATION (P-8)**

The program in Early Childhood and Special Education prepares candidates to meet the needs of students in Early Childhood (PreK through grade 4) and Special Education (PreK through grade 8) in schools of the Commonwealth of Pennsylvania. State teacher certification in special education indicates that, dependent upon program, an individual is qualified to teach children in grades PreK through 8 who have disabilities (e.g., learning disabilities, developmental disabilities, autism, emotional/behavioral disorders, other health impairments, and multiple disabilities). However, this program does not address students with hearing and visual impairments. Students take a wide variety of general education and professional education courses, and engage in numerous practicum experiences in area school districts and other appropriate clinical or educational settings. Students are required to meet Edinboro University’s guidelines for “Admission to Teacher Candidacy.”

Graduates of the Bachelor of Science in Early Childhood/Special Education will:

1. Possess foundational understanding about early childhood and American education as it relates to special education
2. Understand, select, and implement appropriate instructional strategies to facilitate learning for students with special needs in grades P-8
3. Understand, select, and implement appropriate instructional strategies to facilitate learning for students in grades P-4
4. Utilize formative and summative assessment as a process for learning analysis and decision making in the classroom

5. Apply early childhood as well as special education theory and best practice in clinical experiences associated with Pre-professional field experiences and student teaching
6. Recognize and understand the professional, social and ethical responsibilities associated with early childhood/special education

Upon completion of the competencies in Early Childhood Education and Special Education and 135 credit hours, the student is awarded a Bachelor of Science in Education degree. After successfully passing the designated national teacher examinations and meeting other Pennsylvania Department of Education requirements, students are recommended to the Commonwealth for teaching certification.

I.	General Education Requirements	45 sem. hrs.
A.	Skills	12 sem. hrs.
	ENGL101	College Writing (3)
	**ENGL102	Writing and Research (3)
	**MATH110	Math Reasoning I (3)
	SEDU183	Tech. for Teaching and Learning (3)
B.	Core	21 sem. hrs.
	**Artistic Expression – <i>Literature</i> (3)	
	World Civilizations – GEOG101 (3)	
	American Civilizations – HIST262 (3)	
	Human Behavior – PSYC101 (3)	
	Cultural Diversity and Social Pluralism – SEDU271 (3)	
	Ethics (3)	
	Natural Science – PHYS101 (3)	
C.	Distribution	12 sem. hrs.
	**Humanities and Fine Arts - <i>Literature</i> (3)	
	Social and Behavioral Sciences (3)	
	Natural Science and Mathematics (6)	
	BIOL102 (3)	
	MATH210 (3)	
II.	Early Childhood Education	39 sem. hrs.
	ECED120	Introduction to Early Childhood Education (3)
	ECED150	Child Development (3)
	ECED210	Play and Active Learning approaches to ECE (3)
	ECED244	Building Partnerships that Support Young Children (3)
	ECED270	Literacy Foundation Grades 1-4 (3)
	ECED290	Language Arts Grades 1-4 (3)
	<u>PreK/K Block</u>	
	ECED341	Language and Literacy (3)
	ECED342	Integrating Math and Science in the Early Years (3)
	ECED343	Creative Expressive Arts (3)
	ECED345	Advocacy and Guidance (3)
	<u>P- 4 Block</u>	
	ECED340	Methods of Teaching Social Studies (3)
	ECED350	Learning and Teaching Math Grades 1- 4 (3)
	ECED360	Learning and Teaching Science Grades 1- 4 (3)
III.	Special Education	33 sem. hrs.
	**SPED210	Introduction to Exceptionalities and Special Education (3)
	SPED240	Managing Inclusive Learning Environments (3)
	SPED320	High Incidence Disabilities (3)
	SPED340	Low Incidence Disabilities (3)
	SPED350	Language and Literacy Skills for Students with Disabilities (3)

SPED360	Instructional Planning and Strategies in Special Education (3)	
SPED370	Adaptations and Accommodations in Inclusive Classrooms (3)	
<u>Special Education Block</u>		
SPED410	Positive Behavior Supports and Interventions (3)	
SPED420	Assessment of Students with Disabilities (3)	
SPED430	Collaboration and IEP Development (3)	
SPED440	Field Experience in Special Education (3)	
IV.	Professional Education	15 sem. hrs.
	SPED495	Student Teaching (Sp.Ed.) (6)
	ECED380	Data Driven Assessment for Student Learning (3)
	ECED495	Student Teaching (PK/K-4) (6) To be completed the same semester
V.	Free Electives	3 sem. hrs.
	TOTAL	135 sem. hrs.
**Courses with 2 asterisks are required for candidacy		

**BACHELOR OF SCIENCE EARLY CHILDHOOD EDUCATION (P-4) AND SPECIAL EDUCATION (P-8) (Suggested Eight-Semester Sequence)**

**First Semester**

ENGL101	College Writing Skills (3)	
MATH110	Math Reasoning I (3)	
PSYC101	Introduction to Psychology (3)	
SEDU271	Multiculturalism in American Schools (3)	
	General Education: Core Course (3)	
	Freshman Common Hour (0)	
	TOTAL	15 sem. hrs.

**Second Semester**

ENGL102	Specialized College Writing and Research Skills (3)	
MATH210	Math Reasoning II (3)	
ECED150	Child Development II (3)	
ECED120	Introduction to Early Childhood Education (3)	
SPED210	Introduction to Exceptionalities and Special Education (3)	
	General Education: Core Course (3)	
	TOTAL	18 sem. hrs.

**Third Semester**

SPED240	Literature Course Core 1 (3)	
	Managing Inclusive Learning Environments (3)	
SEDU183	Tech for Teaching and Learning (3)	
	General Education (9)	
	TOTAL	18 sem. hrs.

**Fourth Semester**

SPED320	High Incidence Disabilities (3)	
SPED340	Educating with Low Incidence Disabilities (3)	
ECED210	Play and Active Learning Approaches to Early Childhood Ed (3)	
ECED244	Building Partnerships that Support Young Children (3)	
	General Education (6)	
	TOTAL	18 sem. hrs.

**Fifth Semester****PRE K/K Block:**

ECED341	Language and Literacy (3)
ECED342	Integrating Math and Science in The Early Years (3)
ECED343	Creative Expression Arts (3)
ECED345	Advocacy and Guidance (3)
SPED350	Language and Literacy Skills for Exceptional Students (3)
SPED360	Instructional Planning Strategies (3)
TOTAL 18 sem. hrs.	

**Sixth Semester****SPED BLOCK:**

SPED410	Positive Behavior Supports and Interventions (3)
SPED420	Assessment of Students with Disabilities (3)
SPED430	Collaboration and IEP Development (3)
SPED440	Field Experience in Special Education (3)
ECED270	Literacy Foundations Grade 1-4 (3)
ECED290	Language Arts Grades 1-4 (3)
TOTAL 18 sem. hrs.	

**Seventh Semester****P-4 Block:**

ECED340	Methods of Teaching Social Studies (3)
ECED350	Learning & Teaching Math Grades 1-4 (3)
ECED360	Learning & Teaching Science Grades 1-4 (3)
SPED370	Adaptations and Accommodations in Inclusive Settings (3)
	General Education course: (3)
TOTAL 15 sem. hrs.	

**Eighth Semester**

SPED495	Student Teaching in Special Education P-8 (6)
ECED380	Data Driven Assessment for Student Learning (3)
ECED495	Student Teaching in PK/K-4 (6)
TOTAL 15 sem. hrs.	

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## Middle & Secondary Education and Educational Leadership Department

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**FACULTY:** Heather Baron, Charles W. Cross, Susan Curtin, Nomsa Geleta, Joseph Johnson, Gwyneth Price, Andrew Pushchak, Nicholas Stupiansky, Michael Vetere, Whitney Wesley, Stacie Wolbert, John Ziegler

**Mission**

The faculty members of the Middle, and Secondary Education Department are committed to provide undergraduate and graduate educational programs that combine strong academic content knowledge and effective pedagogy, to prepare highly qualified teachers who effectively facilitate student learning in diverse middle and secondary classrooms.

**Vision**

Through continued professional development, scholarly activities, and community involvement, highly qualified faculty strive to provide nationally recognized teacher education programs that address the needs of a diverse global society.

Successful applicants for Pennsylvania teaching certification must achieve passing scores on the Pre-service Academic Performance Assessment::

1. PAPA Module 1-Reading
2. PAPA Module 2-Mathematics
3. PAPA Module 3-Writing
4. Specialty area exam appropriate to the applicants' field of certification.

**PROGRAMS IN MIDDLE AND SECONDARY EDUCATION**

The curriculum for the preparation of teachers for, Middle and Secondary school certification has three components: a representative core of general education courses, a concentration of studies in an academic discipline, and designated courses in professional education.

All students enrolled in the Middle and Secondary education curriculum must complete a professional concentration focusing on the knowledge and skills associated with teaching in middle level (4-8) and secondary level (7-12)..

This concentration emphasizes:

1. Foundational understanding about American education.
2. The cognitive, affective, sensory and psychomotor behaviors consistent with the growth and development of secondary school youth.
3. Understanding, selecting, and organizing the methods and skills in each of the academic disciplines that are most appropriate in enabling students to attain desired achievement levels..
4. Informal and formal assessment process for analysis and decision making in the classroom.
5. Four stages of field experiences integrated into all coursework.

Each Middle and Secondary Education curriculum includes in its four-year program areas of concentration leading to certification.

Option I (30 credits in a concentration area)

- 1) English Language Arts and Reading
- 2) Mathematics
- 3) Science
- 4) Social Studies

Option II (21 credits in two content areas)

- 1) English/ Language Arts & Reading and Science
- 2) English/ Language Arts & Reading and Mathematics
- 3) Mathematics and Science
- 4) Mathematics and Social Studies
- 5) Science and Social Studies

Secondary Education:

- Biology
- Chemistry
- Comprehensive English
- Earth/Space Science
- (program on moratorium/ no new students accepted into this program)
- General Science
- Mathematics
- Physics
- Social Studies

A student in Middle and Secondary Education must earn at least a grade of C in each course presented toward fulfillment of the minimum number of hours required for graduation and certification in the student's major academic field and student teaching, including required supporting courses.

Courses in specialization areas may be used, where appropriate, and as defined below, to meet General Education requirements thus permitting students to complete degrees within or close to the required hours for graduation. This requires careful planning.

All middle and secondary education majors must complete a three-semester hour literature course in addition to ENGL101 and ENGL102, and two math courses at the 100 level or above to comply with PDE certification requirements.

The State Board of Education adopted changes that affect all of Pennsylvania's teacher certification programs by adding additional competencies for adaptations and accommodations for diverse students in an inclusive setting and three credits of additional competencies to meet the instructional needs of English Language Learners.

The programs in middle level education (grades 4-8) and secondary education (grades 7-12) prepare candidates to meet the needs of students in schools of the Commonwealth of Pennsylvania. As a result of new state law, the "Elementary" component of this department is available only to students enrolled before July 2010 in an elementary major. Beginning August 2010, the Elementary, Middle and Secondary Education Department only provide programs for middle level and secondary education. Teacher candidates in middle level and secondary education are provided with essential professional education courses as well as carefully planned experiences in public schools. Students are required to meet Edinboro University's guidelines for "Admission to Teacher Candidacy." Upon completion of the competencies in Middle Level or Secondary education, the student is awarded a Bachelor of Science in Education degree. After successfully passing the designated teacher examinations and meeting other Pennsylvania Department of Education requirements, students are recommended to the Commonwealth for teaching certification.

**MIDDLE LEVEL** - The middle level concentration for education majors includes four Option 1 concentrations and five Option 2 concentrations. Option 1 concentrations are designed specifically for one concentration area. Option 2 concentrations include a high-need content area (math and/or science) plus a second content area.

**OPTION 1** - Edinboro University of Pennsylvania will provide for teacher candidates in middle level education the Option 1 concentrations as outlined in the Pennsylvania Department of Education framework. These include one concentration and three generalist academic content areas. In addition, content courses in the specialty areas are aligned with the PA Academic standards and assessment anchors. This option requires teacher candidates to complete a minimum of 30 credit hours in their program of concentration and 12 credits in each of the remaining three areas. Evidence of meeting these requirements in the content areas can be found by examining the course of studies as outlined below.

Middle Level – Option 1 – includes the following programs:

- English/Language Arts & Reading
- Mathematics
- Science
- Social Studies

Graduates of the Bachelor of Science in Middle Level Education will be able to:

- Accept the requirement to build a civil society that focuses on respect and embraces diversity.
- Demonstrate pedagogical skills built on a solid foundation of discipline-specific content, reinforced by a broad liberal arts education and supervised by clinical experiences.
- Effectively utilize community resources to support the educational and personal growth of learners.
- Engage in a professional learning community committing themselves to excellence, continual study, practice, reflection, and self-improvement.

- Exhibit continual informed decision-making, planning, and facilitation of learning based on knowledge of research, best practices, state and national student performance standards and ethical standards of the profession.
- Give back to the community through civic action.
- Lead and monitor all student learners using motivational and management skills.
- Recognize the importance of technology and are able to utilize current and appropriate technology for instruction, administration, and facilitation of learning.
- Strive for congruence of professional and interpersonal dispositions to interact, communicate and collaborate effectively with students, families, colleagues, and the community.
- Utilize personal creativity, flexibility, and skill in assessing, creating and adapting instruction that provides opportunities for every student to be successful.

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## BACHELOR OF SCIENCE IN EDUCATION

### Area of Certification – Middle Level English/Language Arts & Reading

I.	General Education Requirements	42 sem. hrs.
A.	Skills	12 sem. hrs.
	ENGL101	College Writing Skills (3)
	ENGL102	Specialized College Writing and Research Skills (3)
	MATH110	Math Reasoning I (3)
	SEDU183	Tech. for Teaching and Learning (3)
B.	Core	21 sem. hrs.
		Artistic Expression – ENGL118 (3)
		World Civilizations – HIST101, HIST102 or GEOG101 (3)
		American Civilizations- HIST261, HIST262 or GEOG260 (3)
		Human Behavior – PSYC101 (3)
		Cultural Diversity and Social Pluralism – SEDU271 – Multicult Amer. Schools (3)
		Ethics (3)
		Natural Science (3)
C.	Distribution	9 sem. hrs.
		Humanities and Fine Arts- ENGL201 or ENGL202 (3)
		Social and Behavioral Sciences- HIST380 (3)
		Natural Sciences and Mathematics (Science only) (3)
II.	Professional Education	43 sem. hrs.
	<i>SPED210</i>	<i>Intro to Exception &amp; Special Ed (3)</i>
	MLED306	Literacy and the Young Adolescent (4)
	<i>MLED350</i>	<i>Characteristics ML Learners (3)**</i>
	<i>MLED360</i>	<i>Dev. Appropriate ML Feat/Prac (3)**</i>
	SPED370	Adapt/Accom Inclusive Clssrm (3)***
	MLED381	Assessment for Learning Young Adoles (3)***
	MLED466	Integrated Lang Arts/Soc St ML (3)***
	MLED467	Integrated Math/Science ML (3)***
	MLED475	Middle Level Field Experience (3)***
	MLED491	ML Classroom Community (3)****
	MLED495	Student Teaching (12)****

III. Specialization in English	33 or 34 sem. hrs.
A. Required Courses	18 sem. hrs.
ENGL205	Multi Ethnic American Lit (3)
ENGL211	Traditional Grammar (3)
ENGL241 or 242	British Lit Survey I or II (3)
ENGL525	Composition Theory (3)
ENGL545	Adolescent Literature (3)
THEA218	Intro to Theatre (3)
B. Supporting Courses	15 or 16 sem. hrs.
MATH105	College Algebra (3)
MATH210	Mathematical Reasoning II (3)
MATH250	Informal Geometry (3)
	Science (Lab) (3 or 4)
	Science (3)
IV. Free Elective (dependent on Science Lab)	1 or 2 sem. hrs.
	TOTAL 120 sem. hrs.

\*A student in middle level education must earn at least a grade of “C” in each course presented toward fulfillment of the minimum number of hours required for graduation and certification in the student’s major academic field and student teaching, including required supporting courses.

Courses in BOLD/Italics can be taken Pre-Candidacy

\*\* Taken together

\*\*\*Taken together

\*\*\*\*Taken together

**BACHELOR OF SCIENCE IN EDUCATION – MIDDLE LEVEL ENGLISH/LANG ARTS & READING (Suggested Eight-Semester Sequence)**

**Freshman Year**

**First Semester**

ENGL101	College Writing Skills (3)
PSYC101	Introduction to Psychology (3)
MATH110	Mathematical Reasoning I (3)
ENGL118	Intro to Poetry (3)
Core 7	Natural Science (any) (3)
	Freshman Common Hour
	TOTAL 15 sem. hrs.

**Second Semester**

ENGL 102	Writing and Research (3)
MATH 210	Mathematical Reasoning II (3)
SEDU 183	Technology for Teaching and Learning (3)
SEDU 271	Multiculturalism in American Schools (3)
	Free Elective (1 or 2)
	TOTAL 13 or 14 sem. hrs.

**Sophomore Year**

**Third Semester**

SPED 210	Intro to Exceptionalities/Spec Ed (3)
ENGL205	Multi Ethnic American Literature (3)
HIST 101	World Civilizations I (3) Or
HIST102	World Civilizations II Or
GEOG 101	World Geography
ENGL 201	American Literature Survey I (3) Or
ENGL 202	American Literature Survey II
Distribution 3	Science (3)
	TOTAL 15 sem. hrs.

**Fourth Semester**

MATH 105	College Algebra (3)
ENGL 211	Traditional Grammar (3)
ENGL 241	British Literature Survey I (3) Or
ENGL 242	British Literature Survey II
Core 6	Ethics (3)
Core 7	Science (3)
	TOTAL 15 sem. hrs.

**Junior Year**

**Fifth Semester**

HIST 261	History of U. S. I (3) Or
HIST262	History of U. S. II Or
GEOG260	Geography of U.S. and Canada
SCIENCE	Laboratory Course (any) (4)
ENGL 525	Composition Theory (3)
MLED 350	Characteristics of ML Learners (3)
MLED 360	Devel Appropriate Features & Prac (3)
	TOTAL 16 sem. hrs.

**Sixth Semester**

THEA218	Introduction to Theatre (3)
ENGL 545	Adolescent Literature (3)
HIST 380	Pennsylvania History (3)
MLED 306	Literacy and the Young Adolescent (4)
MATH 250	Informal Geometry (3)
	TOTAL 16 sem. hrs.

**Senior Year**

**Seventh Semester**

SPED 370	Adapt/Accom in Inclusive Clsrms (3)
MLED 381	Assess for Learning of Young Adoles (3)
MLED 466	Integra LgArts & SocStud ML Learner (3)
	MLED 467
	MLED 475
	Integra Math/ Science ML Learner (3)
	Middle Level Field (3)
	TOTAL 15 sem. hrs.

**Eighth Semester**

MLED 491	ML Classroom Community	3 credits
MLED 495	Student Teaching	12 credits
	TOTAL	15 sem. hrs.

**BACHELOR OF SCIENCE IN EDUCATION**

**Area of Certification – Middle Level Mathematics: Option 1**

I. General Education Requirements	43 sem. hrs.
A. Skills	13 sem. hrs.
ENGL101	College Writing Skills (3)
ENGL102	Specialized College Writing and Research Skills (3)
MATH107	Pre Calculus (4)
SEDU183	Tech. for Teaching and Learning (3)
B. Core	21 sem. hrs.
	Artistic Expression (3)
	World Civilizations – HIST101, HIST102 or GEOG101 (3)
	American Civilizations- HIST261, HIST262 or GEOG260 (3)
	Human Behavior – PSYC101 (3)
	Cultural Diversity and Social Pluralism – SEDU271 – Multicult. Amer. Schools (3)
	Ethics (3)
	Natural Science (3)
C. Distribution	9 sem. hrs.
	Humanities and Fine Arts- English Lit 300 level or above (3)
	Social and Behavioral Sciences- HIST380 (3)
	Natural Sciences and Mathematics (3)

II. Professional Education	43 sem. hrs.
<i>SPED210</i>	<i>Intro to Exception &amp; Special Ed (3)</i>
MLED306	Literacy and the Young Adolescent (4)
<i>MLED350</i>	<i>Characteristics ML Learners (3)**</i>
<i>MLED360</i>	<i>Dev. Appropriate ML Feat/Prac (3)**</i>
SPED370	Adapt/Accom Inclusive Clsrm (3)***
MLED381	Assessment for Learning Young Adoles (3)***
MLED466	Integrated Lang Arts/Soc St ML (3)***
MLED467	Integrated Math/Science ML (3)***
MLED475	Middle Level Field Experience (3)***
MLED491	ML Classroom Community (3)****
MLED495	Student Teaching (12)****
III. Specialization in Math	32 or 33 sem. hrs.
A. Required Courses	26 sem. hrs.
MATH 211	Analytical Geom. & Calculus I (4)
MATH212	Analytical Geom. & Calculus II (4)
MATH270	Discrete Mathematics I (3)
MATH275	Linear Algebra I (3)
MATH250	Informal Geometry (3)
MATH300	Applied Statistical Methods (3)
MATH403	Math for Sec. Sch. Teachers (3)
MATH 404	Comp. and Calc. Sec. Curric. (3)
B. Supporting Courses	6 or 7 sem. hrs.
	Science (Lab) (3 or 4)
	Science (3)
IV. Free Elective (1 or 2)	1 or 2 sem. hrs.
	TOTAL 120 sem. hrs.

\*A student in middle level education must earn at least a grade of C in each course presented toward fulfillment of the minimum number of hours required for graduation and certification in the student's major academic field and student teaching, including required supporting courses.

Courses in BOLD/Italics can be taken Pre-Candidacy

- \*\* Taken together
- \*\*\*Taken together
- \*\*\*\*Taken together

**BACHELOR OF SCIENCE IN EDUCATION – MIDDLE LEVEL MATHEMATICS: OPTION 1 (Suggested Eight-Semester Sequence)**

**Freshman Year**

**First Semester**

ENGL101	College Writing Skills (3)
PSYC101	Introduction to Psychology (3)
MATH107	Pre Calculus (3)*
SEDU183	Technology for Teaching and Learning (3)
Core 1	Artistic Expression (any) (3)
	Common Hour
	TOTAL 15 sem. hrs.

**Second Semester**

ENGL102	Writing and Research (3)
MATH211	Analytic Geometry & Calculus I (4)
HIST101	World Civilizations I (3) Or
HIST102	World Civilizations II Or
GEOG101	World Geography
SEDU271	Multiculturalism in American Schools (3)
Core 7	Natural Science (any) (3)
	TOTAL 16 sem. hrs.

**Sophomore Year**

**Third Semester**

SPED210	Intro to Exceptionalities/Spec Ed (3)
MATH212	Analytical Geometry and Calculus II (3)
MATH275	Linear Algebra I (3)
	Free Elective (1 or 2)
	Science (3)
	TOTAL 13 or 14 sem. hrs.

**Fourth Semester**

MATH250	Informal Geometry (3)
MATH270	Discrete Mathematics (3)
Dist 1	ENGL Literature - 300 Level or Above (3)
Core 6	Ethics (any) (3)
Dist 3	Science (3)
	TOTAL 15 sem. hrs.

**Junior Year**

**Fifth Semester**

HIST261	History of U. S. I (3) OR
HIST262	History of U. S. II OR
GEOG260	Geography of U.S. and Canada
MATH300	Applied Statistical Methods (3)
MATH403	Math for the Sec. School Teacher (3)**
MLED350	Characteristics of ML Learners (3)
MLED360	Devel Appropriate Features & Prac (3)
	TOTAL 15 sem. hrs.

**Sixth Semester**

MATH404	Comp/Calc Sec. Curric. (3)**
HIST380	Pennsylvania History (3)
MLED306	Literacy and the Young Adolescent (4)
SCIENCE	Science Lab (3 or 4)
	TOTAL 13 or 14 sem. hrs.

**Senior Year**

**Seventh Semester**

SPED 370	Adapt/Accom in Inclusive Classrms (3)
MLED 381	Assess for Learning of Young Adoles (3)
MLED 466	Integra LgArts & SocStud ML Learner (3)
MLED 467	Integra Math/ Science ML Learner (3)
MLED 475	Middle Level Field (3)
	TOTAL 15 sem. hrs.

**Eighth Semester**

MLED 491	ML Classroom Community 3 credits
MLED 495	Student Teaching 12 credits
	TOTAL 15 sem. hrs.

\*If placement test suggests Calc I the prerequisite math courses can be moved up one semester.

\*\*These courses are only offered every three semesters and Math 403 and Math 404 are in opposite semesters.

**BACHELOR OF SCIENCE IN EDUCATION**

**Area of Certification – Middle Level Science: Option 1**

I. General Education Requirements	42 sem. hrs.
A. Skills	12 sem. hrs.
ENGL101	College Writing Skills (3)
ENGL102	Specialized College Writing and Research Skills (3)
MATH105	College Algebra (3)
SEDU183	Tech. for Teaching and Learning (3)

B. Core		21 sem. hrs.
	Artistic Expression (3) World Civilizations – HIST101, HIST102 or GEOG101 (3) American Civilizations- HIST261, HIST262 or GEOG260 (3) Human Behavior – PSYC101 (3) Cultural Diversity and Social Pluralism – SEDU271 – Multicult. Amer. Schools (3) Ethics (3) Natural Science - GEOS101 (3)	
C. Distribution		9 sem. hrs.
	Humanities and Fine Arts- English Lit 300 level or above (3) Social and Behavioral Sciences- HIST380 (3) Natural Sciences and Mathematics – MATH208 (3)	
II. Professional Education		43 sem. hrs.
	<b><i>SPED210</i></b> <b><i>Intro to Exception &amp; Special Ed (3)</i></b> MLED306 Literacy and the Young Adolescent (4) <b><i>MLED350</i></b> <b><i>Characteristics ML Learners (3)**</i></b> <b><i>MLED360</i></b> <b><i>Dev. Appropriate ML Feat/Prac (3)**</i></b> SPED370 Adapt/Accom Inclusive Clssrm (3)*** MLED381 Assessment for Learning Young Adoles (3)***  MLED466 Integrated Lang Arts/Soc St ML (3)*** MLED467 Integrated Math/Science ML (3)*** MLED475 Middle Level Field Experience (3)*** MLED491 ML Classroom Community (3)**** MLED495 Student Teaching (12)****	
III. Specialization in General Science		33 or 34 sem. hrs.
A. Required Courses		28 sem. hrs.
	BIOL150 Principles of Biology (4) BIOL230 Botany Or BIOL240 Zoology (4) CHEM140 General Chemistry (4) GEOS109 Atmospheric & Space Sci (3) PHYS101 Physical Science (3) PHYS271 Frontiers in Astronomy (3) Field Course (300 level or above) (3) Science Lab (3 or 4)	
B. Supporting Courses		6 sem. hrs.
	MATH250 Informal Geometry (3) MATH260 Elements of Statistics (3)	
V. Free Elective		1 or 2 sem. Hrs.
		<b>TOTAL 120 sem. hrs.</b>

\*A student in middle level education must earn at least a grade of C in each course presented toward fulfillment of the minimum number of hours required for graduation and certification in the student’s major academic field and student teaching, including required supporting courses.

Courses in BOLD/Italics can be taken Pre-Candidacy

- \*\* Taken together
- \*\*\*Taken together
- \*\*\*\*Taken together

**BACHELOR OF SCIENCE IN EDUCATION – MIDDLE LEVEL SCIENCE: OPTION 1**  
**(Suggested Eight-Semester Sequence)**

**Freshman Year**

**First Semester**

ENGL101	College Writing Skills (3)
PSYC101	Introduction to Psychology (3)
MATH105	College Algebra (3)
BIOL150	Principles of Biology (4)
	Artistic Expression Core 1 (any) (3)
	Freshman Common Hour
	<b>TOTAL 16 sem. hrs.</b>

**Second Semester**

ENGL102	Writing and Research (3)
SEDU183	Technology for Teaching and Learning (3)
HIST101	World Civilizations I (3) Or
HIST102	World Civilizations II Or
GEOG101	World Geography
SEDU271	Multiculturalism in American Schools (3)
MATH208	Essentials of Calculus (3)
	<b>TOTAL 15 sem. hrs.</b>

**Sophomore Year**

**Third Semester**

SPED 210	Intro to Exceptionalities/Spec Ed (3)
BIOL230	Botany (4) Or
BIOL240	Zoology
MATH 250	Informal Geometry (3)
PHYS101	Physical Science (3)
	Free Elective (1 or 2)
	<b>TOTAL 14 or 15 sem. hrs.</b>

**Fourth Semester**

MATH 260	Elements of Statistics (3)
CHEM140	General Chemistry (4)
	ENGL Literature 300 Level or Above (3) (fulfills Distribution 1)
Core 6	Ethics (3)
GEOS101	Dynamic Earth (3)
	<b>TOTAL 16 sem. hrs.</b>

**Junior Year**

**Fifth Semester**

HIST261	History of U.S. I (3) Or
HIST262	History of U.S. II Or
GEOG260	Geography of U.S. and Canada (3)
GEOS109	Atmospheric & Space Science (3)
MLED350	Characteristics of ML Learners (3)
MLED360	Devel Appropriate Features & Prac (3)
SCIENCE	Laboratory (any) (3 or 4)
	<b>TOTAL 15 or 16 sem. hrs.</b>

**Sixth Semester**

HIST380	Pennsylvania History (3)
PHYS271	Frontiers of Astronomy (3)
MLED306	Literacy and the Young Adolescent (4)
SCIENCE	Field Course (3)
	<b>TOTAL 13 sem. hrs.</b>

**Senior Year**

**Seventh Semester**

SPED370	Adapt/Accom in Inclusive Classrms (3)
MLED381	Assess for Learning of Young Adoles (3)
MLED466	Integra LgArts & Soc. Stud ML Learner (3)
MLED467	Integra Math/ Science ML Learner (3)
MLED475	Middle Level Field (3)
	<b>TOTAL 15 sem. hrs.</b>



**Eighth Semester**

MLED491 ML Classroom Community (3)	
MLED495 Student Teaching (12)	
<b>TOTAL</b>	<b>15 sem. hrs.</b>

**BACHELOR OF SCIENCE IN EDUCATION****Area of Certification – Middle Level Social Studies Option 1**

I. General Education Requirements		42 sem. hrs.
A. Skills		12 sem. hrs.
ENGL101	College Writing Skills (3)	
ENGL102	Specialized College Writing and Research Skills (3)	
MATH110	Math Reasoning I (3)*	
SEDU183	Tech. for Teaching and Learning (3)	
B. Core		21 sem. hrs.
	Artistic Expression (3)	
	World Civilizations – HIST101	
	World Civ I (3)	
	American Civilizations- HIST261	
	History of U.S. I (3)	
	Human Behavior – PSYC101	
	Introduction to Psychology (3)	
	Cultural Diversity and Social Pluralism – SEDU271 Multicult Amer Schools (3)	
	Ethics (3)	
	Natural Science – Science (3)	
C. Distribution		9 sem. hrs.
	Humanities and Fine Arts- English Lit 300 level or above (3)	
	Social and Behavioral Sciences- HIST380 PA Hist (3)	
	Natural Sciences and Mathematics Science (3)	
II. Professional Education		43 sem. hrs.
<i>SPED210</i>	<i>Intro to Exception &amp; Special Ed (3)</i>	
MLED306	Literacy and the Young Adolescent (4)	
<i>MLED350</i>	<i>Characteristics ML Learners (3)**</i>	
<i>MLED360</i>	<i>Dev. Appropriate ML Feat/Prac (3)**</i>	
SPED370	Adapt/Accom Inclusive Clsrm (3)***	
MLED381	Assessment for Learning Young Adoles (3)***	
MLED466	Integrated Lang Arts/Soc St ML (3)***	
MLED467	Integrated Math/Science ML (3)***	
MLED475	Middle Level Field Experience (3)***	
MLED491	ML Classroom Community (3)****	
MLED495	Student Teaching (12)****	
III. Specialization in Social Studies		33 or 34 sem. hrs.
A. Required Courses		18 sem. hrs.
ECON100	Elements of Economics (3)	
GEOG101	World Geography (3)	
HIST102	World Civilizations II (3)	
HIST262	History of U.S. II	
POLI201	American Government (3)	
POLI102	Introduction Comparative Politics (3)	
B. Required Supporting Courses		15 or 16 sem. hrs.
MATH105	College Algebra (3)	
MATH210	Mathematical Reasoning I (3)	
MATH250	Informal Geometry (3)	
	Science (Lab) (3 or 4)	
	Science (3)	
IV. Free Elective		1 or 2 sem. hrs.
<b>TOTAL</b>		<b>120 sem. hrs.</b>

\*A student in middle/secondary education must earn at least a grade of C in each course presented toward fulfillment of the minimum number of hours required for graduation and certification in the student's major academic field and student teaching, including required supporting courses.

Courses in BOLD/Italics can be taken Pre-Candidacy

\*\* Taken together

\*\*\*Taken together

\*\*\*\*Taken together

**BACHELOR OF SCIENCE IN EDUCATION – MIDDLE LEVEL SOCIAL STUDIES (Suggested Eight-Semester Sequence)**

**Freshman Year****First Semester**

ENGL101	College Writing Skills (3)
PSYC101	Introduction to Psychology (3)
MATH110	Mathematical Reasoning I (3)
GEOG101	World Geography (3)
Core 1	Artistic Expression (any) (3)
	Freshman Common Hour
	<b>TOTAL 15 sem. hrs.</b>

**Second Semester**

ENGL102	Writing and Research (3)
MATH210	Mathematical Reasoning II (3)
SEDU183	Technology for Teaching and Learning (3)
SEDU271	Multiculturalism in American Schools (3)
Core 7	Natural Science (any) (3)
	<b>TOTAL 15 sem. hrs.</b>

**Sophomore Year****Third Semester**

SPED210	Intro to Exceptionalities/Spec Ed (3)
ECON100	Elements of Economics (3)
HIST101	World Civilizations I (3)
	Free Elective (1 or 2)
	Science (3)
	<b>TOTAL 13 or 14 sem. hrs.</b>

**Fourth Semester**

MATH105	College Algebra (3)
POLI201	American Government (3)
HIST102	World Civilizations II (3)
Core 6	Ethics (3)
Dist 3	Science (3)
	<b>TOTAL 15 sem. hrs.</b>

**Junior Year****Fifth Semester**

HIST261	History of U. S. I (3)
MATH250	Informal Geometry (3)
SCIENCE	Laboratory Course (any) (3 or 4)
MLED350	Characteristics of ML Learners (3)
MLED360	Devel Appropriate Features & Prac (3)
	<b>TOTAL 15 or 16 sem. hrs.</b>

**Sixth Semester**

HIST380	Pennsylvania History (3)
HIST262	History of U.S. II (3)
Dist 1	ENGL literature 300 level or above (3)
MLED 306	Literacy and the Young Adolescent (3)
POLI102	Intro to Comparative Politics (3)
	<b>TOTAL 15 sem. hrs.</b>

**Senior Year**

**Seventh Semester**

SPED 370	Adapt/Accom in Inclusive Clsrms (3)	
MLED 381	Assess for Learning of Young Adoles (3)	
MLED 466	Integra LgArts & Soc. Stud. ML Learner (3)	
MLED 467	Integra Math/ Science ML Learner (3)	
MLED 475	Middle Level Field (3)	
	<b>TOTAL</b>	15 sem. hrs.

**Eighth Semester**

MLED 491	ML Classroom Community (3)	
MLED 495	Student Teaching (12)	
	<b>TOTAL</b>	15 sem. hrs.

**OPTION 2** - Edinboro University of Pennsylvania will provide for teacher candidates in middle level education the Option 2 concentrations as outlined in the Pennsylvania Department of Education framework. This option requires teacher candidates to complete a minimum of 21 credit hours in each concentration and 12 credits in each of the two remaining content areas. Evidence of meeting these requirements in the content areas can be found by examining the course of studies as outlined below.

Middle Level – Option 2 – includes the following programs:

- Mathematics and English/Language Arts & Reading
- Mathematics and Science
- Mathematics and Social Studies
- Science and English/Language Arts & Reading
- Science and Social Studies

**BACHELOR OF SCIENCE IN EDUCATION**

**Area of Certification – Math and English/Language Arts & Reading Option 2**

I. General Education Requirements		42 sem. hrs.
A. Skills		12 sem. hrs.
ENGL101	College Writing Skills (3)	
ENGL102	College Writing and Research Skills (3)	
MATH105	College Algebra (3)	
SEDU183	Tech. for Teaching and Learning (3)\	
B. Core		21 sem. hrs.
	Artistic Expression – ENGL118 Intro to Poetry (3)	
	World Civilizations – HIST101 or HIST102 World Civ I or II or GEOG101 World Geography (3) or GEOG260 Geography of U.S. and Canada (3)	
	Human Behavior – PSYC101	
	Introduction to Psychology (3)	
	Cultural Diversity and Social Pluralism – *SEDU271 Multicult Am Schools (3)	
	Ethics (3)	
	Natural Science – Science (3)	
C. Distribution		9 sem. hrs.
	Humanities and Fine Arts- ENGL 201 or 202 American Lit Survey I or II (3)	
	Social and Behavioral Sciences- HIST380 Pennsylvania Hist (3)	
	Natural Sciences and Mathematics (must have same prefix) (3)	
	Science (3)	

II. Professional Education		43 sem. hrs.
	<b>SPED210</b>	<b>Intro to Exception &amp; Special Ed (3)</b>
	MLED306	Literacy and the Young Adolescent (4)
	<b>MLED350</b>	<b>Characteristics ML Learners (3) **</b>
	<b>MLED360</b>	<b>Dev. Appropriate ML Feat/Prac (3)**</b>
	SPED370	Adapt/Accom Inclusive Clsrms (3)***
	MLED381	Assessment for Learning Young Adoles (3)***
	MLED466	Integrated Lang Arts/Soc St ML (3)***
	MLED467	Integrated Math/Science ML (3)***
	MLED475	Middle Level Field Experience (3)***
	MLED491	ML Classroom Community (3)****
	MLED495	Student Teaching (12)****
III. Specialization in Math and Language Arts		33 or 34 sem. hrs.
A. Required Courses		27 sem hrs.
	ENGL205	Multi-ethnic Amer Lit (3)
	ENGL211	Traditional Grammar (3)
	ENGL545	Adolescent Lit (3)
	MATH208	Essentials of Calculus (3)
	MATH270	Discrete Mathematics I (3)
	MATH275	Linear Algebra I (3)
	MATH250	Informal Geometry (3)
	MATH260	Elements of Statistics (3)
	MATH403	Math for Sec. Sch. Teachers (3) OR
	MATH404	Comp. and Calc. Sec. Curric. (3)
B. Supporting Courses		6 or 7 sem. hrs.
	Science (lab)	(3 or 4)
	Science (3)	
IV. Free Elective		1 or 2 sem. hrs.
	<b>TOTAL</b>	120 sem. hrs.

\*A student in middle/secondary education must earn at least a grade of C in each course presented toward fulfillment of the minimum number of hours required for graduation and certification in the student’s major academic field and student teaching, including required supporting courses.

Courses in BOLD/Italics can be taken Pre-Candidacy

\*\* Taken together

\*\*\*Taken together

\*\*\*\*Taken together

**BACHELOR OF SCIENCE IN EDUCATION – MIDDLE LEVEL MATH & ENGL/LANG ARTS & READING (Suggested Eight-Semester Sequence)**

**Freshman Year**

**First Semester**

ENGL101	College Writing Skills (3)	
PSYC101	Introduction to Psychology (3)	
MATH105	College Algebra (3)	
ENGL118	Intro to Poetry (3)	
SCIENCE	Core 7 Natural Science (3)	
	Freshman Common Hour	
	<b>TOTAL</b>	15 sem. hrs.

**Second Semester**

ENGL 102	Writing and Research (3)	
MATH 208	Essentials of Calculus (3)	
SEDU 183	Technology for Teaching and Learning (3)	
SEDU 271	Multiculturalism in American Schools (3)	
	Free Elective (1 or 2)	
	<b>TOTAL</b>	13 or 14 sem. hrs.

**Sophomore Year**

**Third Semester**

SPED 210	Intro to Exceptionalities/Spec Ed (3)	
MATH 270	Discrete Mathematics I (3)	
HIST101	World Civilizations I (3) Or	
HIST102	World Civilizations II Or	
GEOG101	World Geography	
ENGL201	American Literature Survey I (3) Or	
ENGL202	American Literature Survey II	
SCIENCE	Distribution (3)	
	<b>TOTAL</b>	15 sem. hrs.

**Fourth Semester**

MATH 275	Linear Algebra I (3)	
MATH 250	Informal Geometry (3)	
ENGL 205	Multi-ethnic Literature (3)	
SCIENCE	Distribution 3 Science (3)	
HIST261	History of U.S. I (3) Or	
HIST262	History of U.S. II Or	
GEOG260	Geog of U.S. and Canada	
	<b>TOTAL</b>	15 sem. hrs.

**Junior Year**

**Fifth Semester**

MATH 260	Elements of Statistics (3)	
SCIENCE	Science Lab (3 or 4)	
ETHICS	Core 6 (any) (3)	
MLED350	Characteristics of ML Learners (3)	
MLED360	Devel Appropriate Features & Prac (3)	
	<b>TOTAL</b>	16 sem. hrs.

**Sixth Semester**

HIST 380	Pennsylvania History (3)	
MATH403	Math for Sec. Sch. Teachers (3)* Or	
MATH 404	Comp. and Calc. in Sec. Curric. (3)*	
ENGL211	Traditional Grammar (3)	
ENGL545	Adolescent Literature (3)	
MLED306	Literacy and the Young Adolescent (4)	
	<b>TOTAL</b>	16 sem. hrs.

**Senior Year**

**Seventh Semester**

SPED370	Adapt/Accom in Inclusive Clsrms (3)	
MLED381	Assess for Learning of Young Adoles (3)	
MLED466	Integra LgArts & SocStud ML Learner (3)	
MLED467	Integra Math/ Science ML Learner (3)	
MLED475	Middle Level Field (3)	
	<b>TOTAL</b>	15 sem. hrs.

**Eighth Semester**

MLED 491	ML Classroom Community (3)	
MLED 495	Student Teaching (12)	
	<b>TOTAL</b>	15 sem. hrs.

\*These courses are only offered every three semesters and Math 403 and Math 404 are in opposite semesters.

B. Core 21 sem. hrs.

- Artistic Expression (3)
- World Civilizations – HIST101 or HIST102 or GEOG101 (3)
- American Civilizations- HIST261 or HIST262 or GEOG260 (3)
- Human Behavior – PSYC101
- Introduction to Psychology (3)
- Cultural Diversity and Social Pluralism – SEDU271 Multicult Amer Schools (3)
- Ethics (3)
- Natural Science – GEOS101 or GEOS109 (3)

C. Distribution 10 sem. hrs.

- Humanities and Fine Arts- English Lit 300 level or above (3)
- Social and Behavioral Sciences- HIST380 PA Hist (3)
- Natural Science and Mathematics
- Analyt Geom/Calc I (4)

MATH211

II. Professional Education 43 sem. hrs.

- SPED210*** ***Intro to Exception & Special Ed (3)***
- MLED306*** ***Literacy and the Young Adolescent (4)***
- MLED350*** ***Characteristics ML Learners (3)\*\****
- MLED360*** ***Dev. Appropriate ML Feat/Prac (3)\*\****
- SPED370*** ***Adapt/Accom Inclusive Clssrm (3)\*\*\****
- MLED381*** ***Assessment for Learning Young Adoles (3)\*\*\****
- MLED466*** ***Integrated Lang Arts/Soc St ML (3)\*\*\****
- MLED467*** ***Integrated Math/Science ML (3)\*\*\****
- MLED475*** ***Middle Level Field Experience (3)\*\****
- MLED491*** ***ML Classroom Community (3)\*\*\*\****
- MLED495*** ***Student Teaching (12)\*\*\*\****

III. Specialization in Math and Science 32 sem. hrs.

- MATH212*** ***Analytical Geometry & Calculus II (4)***
- MATH270*** ***Discrete Mathematics I (3)***
- MATH250*** ***Informal Geometry (3)***
- MATH260*** ***Elements of Statistics (3)***
- BIOL150*** ***Principles of Biology (4)***
- BIOL230*** ***Botany (4) OR***
- BIOL240*** ***Zoology (4)***
- CHEM140*** ***General Chemistry I (4)***
- GEOS300*** ***level or above (3)***
- PHYS201*** ***Physics I (4)***

IV. Free Elective (1) TOTAL 120 sem. hrs.

\*A student in middle/secondary education must earn at least a grade of C in each course presented toward fulfillment of the minimum number of hours required for graduation and certification in the student’s major academic field and student teaching, including required supporting courses.

Courses in BOLD/Italics can be taken Pre-Candidacy

- \*\* Taken together
- \*\*\*Taken together
- \*\*\*\*Taken together

**BACHELOR OF SCIENCE IN EDUCATION**

**Area of Certification – Math and Science Option 2**

I. General Education Requirements	44 sem. hrs.
A. Skills	13 sem. hrs.
ENGL101	College Writing Skills (3)
ENGL102	College Writing and Research Skills (3)
MATH107	Pre Calculus (4)
SEDU183	Tech. for Teaching and Learning (3)

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**BACHELOR OF SCIENCE IN EDUCATION – MIDDLE LEVEL MATH AND SCIENCE**  
(Suggested Eight-Semester Sequence)

**Freshman Year****First Semester**

ENGL101	College Writing Skills (3)
PSYC101	Introduction to Psychology (3)
MATH107	Pre Calculus (4)
GEOS101	Dynamic Earth Or
GEOS109	Atmosphere/Space Sci (3)
Core 1	Artistic Expression (any) (3)
	Freshman Common Hour
	TOTAL 15 sem. hrs.

**Second Semester**

ENGL102	Writing and Research (3)
BIOL150	Principles of Biology (4)
SEDU183	Technology for Teaching and Learning (3)
SEDU271	Multiculturalism in American Schools (3)
	Free Elective (1)
	TOTAL 14 sem. hrs.

**Sophomore Year****Third Semester**

SPED 210	Intro to Exceptionalities/Spec Ed (3)
BIOL230	Botany (4) Or
BIOL240	Zoology (4)
MATH211	Analytical Geometry/Calculus I (4)
HIST101	World Civilizations I (3) Or
HIST102	World Civilizations II (3) Or
GEOG101	World Geography (3)
	TOTAL 14 sem. hrs.

**Fourth Semester**

MATH212	Analytic Geometry/Calculus II (4)
MATH250	Informal Geometry (3)
CHEM140	General Chemistry I (4)
Core 6	Ethics (any) (3)
	TOTAL 14 sem. hrs.

**Junior Year****Fifth Semester**

MATH 270	Discrete Mathematics I (3)
PHYS201	Physics I (4)
HIST 261	History of U. S. I (3) Or
HIST262	History of U.S. II (3) Or
GEOG260	Geography of U.S. and Canada (3)
MLED 350	Characteristics of ML Learners (3)
MLED 360	Devel Appropriate Features & Practices (3)
	TOTAL 16 sem. hrs.

**Sixth Semester**

HIST 380	Pennsylvania History (3)
Distr 1	English Literature 300 level or above (3)
GEOS	300 level or above (3)
MATH260	Elements of Statistics (3)
MLED 306	Literacy and the Young Adolescent (4)
	TOTAL 16 sem. hrs.

**Senior Year****Seventh Semester**

SPED 370	Adapt/Accom in Inclusive Clsm (3)
MLED 381	Assess for Learning of Young Adoles (3)
MLED 466	Integra LgArts & SocStud ML Learner (3)
MLED 467	Integra Math/ Science ML Learner (3)
MLED 475	Middle Level Field (3)
	TOTAL 15 sem. hrs.

**Eighth Semester**

MLED 491	ML Classroom Community (3)
MLED 495	Student Teaching (12)
	TOTAL 15 sem. hrs.

\*If placement test suggests Calculus I the prerequisite math courses can be moved up one semester.

**BACHELOR OF SCIENCE IN EDUCATION****Area of Certification – Math and Social Studies Option 2**

I. General Education Requirements	42 sem. hrs.
A. Skills	12 sem. hrs.
ENGL101	College Writing Skills (3)
ENGL102	Specialized College Writing and Research Skills (3)
MATH105	College Algebra (3)
SEDU183	Tech. for Teaching and Learning (3)
B. Core	21 sem. hrs.
Artistic Expression (3)	
World Civilizations – HIST101 or 102	
World Civ I or II (3)	
American Civilizations- HIST261 or 262	
History of U.S. I or II (3)	
Human Behavior – PSYC101	
Introduction to Psychology (3)	
Cultural Diversity and Social Pluralism – *SEDU271 Multicult Am Schools (3)	
Ethics (3)	
Natural Science – Science (3)	
C. Distribution	9 sem. hrs.
Humanities and Fine Arts- English Lit 300 level or above (3)	
Social and Behavioral Sciences- HIST380 Pennsylvania Hist (3)	
Natural Sciences and Mathematics Science (3)	
*Fulfills Core 5 for Education majors only	
II. Professional Education	43 sem. hrs.
<b>SPED210</b>	<b>Intro to Exception &amp; Special Ed (3)</b>
MLED306	Literacy and the Young Adolescent (4)
<b>MLED350</b>	<b>Characteristics ML Learners (3)**</b>
<b>MLED360</b>	<b>Dev. Appropriate ML Feat/Prac (3)**</b>
SPED370	Adapt/Accom Inclusive Clsrm (3)***
MLED381	Assessment for Learning Young Adoles (3)***
MLED466	Integrated Lang Arts/Soc St ML (3)***
MLED467	Integrated Math/Science ML (3)***
MLED475	Middle Level Field Experience (3)***
MLED491	ML Classroom Community (3)****
MLED495	Student Teaching (12)****
III. Specialization in Math and Social Studies	33 or 34 sem. hrs.
A. Required Courses	27 sem. hrs.
MATH208	Essentials of Calculus (3)
MATH270	Discrete Mathematics I (3)
MATH275	Linear Algebra I (3)
MATH250	Informal Geometry (3)
MATH260	Elements of Statistics (3)
MATH403	Math for Sec. Sch. Teachers (3) Or
MATH404	Comp. and Calc. Sec. Curric. (3)
ECON100	Elements of Economics (3)
GEOG200	or above (3)
POLI201	American Government (3)

B. Supporting Courses 7 sem. hrs.  
 Science (Lab) (3 or 4)  
 Science (3)

IV. Free Elective (dependent on science lab) 1 or 2 sem. hrs.  
 TOTAL 120 or 121 sem. hrs.

\*A student in middle/secondary education must earn at least a grade of C in each course presented toward fulfillment of the minimum number of hours required for graduation and certification in the student’s major academic field and student teaching, including required supporting courses.

Courses in BOLD/Italics can be taken Pre-Candidacy

\*\* Taken together

\*\*\*Taken together

\*\*\*\*Taken together

**BACHELOR OF SCIENCE IN EDUCATION – MIDDLE LEVEL MATH AND SOCIAL STUDIES**

(Suggested Eight-Semester Sequence)

**Freshman Year**

**First Semester**

ENGL101 College Writing Skills (3)  
 MATH105 College Algebra (3)  
 PSYC101 Introduction to Psychology (3)  
 HIST101 World Civilizations I (3) Or  
 HIST102 World Civilizations II  
 CORE 1 Artistic Expression (any) (3)  
 Freshman Common Hour  
 TOTAL 15 sem. hrs.

**Second Semester**

ENGL102 Writing and Research (3)  
 MATH208 Essentials of Calculus (3)  
 SEDU183 Technology for Teaching and Learning (3)  
 SEDU271 Multiculturalism in American Schools (3)  
 Core 7 Natural Science (any) (3)  
 TOTAL 15 sem. hrs.

**Sophomore Year**

**Third Semester**

SPED210 Intro to Exceptionalities/Spec Ed (3)  
 MATH270 Discrete Mathematics I (3)  
 HIST261 History of U.S. I (3) Or  
 HIST262 History of U.S. II  
 ENGL Literature 300 level or above (3)  
 SCIENCE Distribution 3 Science (3)  
 TOTAL 15 sem. hrs.

**Fourth Semester**

MATH275 Linear Algebra I (3)  
 MATH250 Informal Geometry (3)  
 ECON100 Elements of Economics (3)  
 Dist 3 Science (3)  
 Free Elective (1 or 2)  
 TOTAL 13 or 14 sem. hrs.

**Junior Year**

**Fifth Semester**

MATH260 Elements of Statistics (3)  
 SCIENCE Science lab (any) (3 or 4)  
 POLI201 American Government (3)  
 MLED350 Characteristics of ML Learners (3)  
 MLED360 Devel Appropriate Features & Prac (3)  
 TOTAL 15 or 16 sem. hrs.

**Sixth Semester**

MATH403 Mathematics for Sec. Sch. Teachers (3)\* Or  
 MATH404 Comp. and Calc. in the Sec. Curric. (3)\*  
 GEOG 200 level or above (3)  
 HIST380 Pennsylvania History (3)  
 CORE 6 Ethics (any) (3)  
 MLED306 Literacy and the Young Adolescent (4)  
 TOTAL 16 sem. hrs.

**Senior Year**

**Seventh Semester**

SPED370 Adapt/Accom in Inclusive Classrooms (3)  
 MLED381 Assess for Learning of Young Adoles (3)  
 MLED466 Integra LgArts & SocStud ML Learner (3)  
 MLED467 Integra Math/ Science ML Learner (3)  
 MLED475 Middle Level Field (3)  
 TOTAL 15 sem. hrs.

**Eighth Semester**

MLED 491 ML Classroom Community (3)  
 MLED 495 Student Teaching (12)  
 TOTAL 15 sem. hrs.

\*These courses are only offered every three semesters and Math 403 and Math 404 are in opposite semesters.

**BACHELOR OF SCIENCE IN EDUCATION**

**Area of Certification – Science and English/Language Arts &**

**Reading Option 2**

I. General Education Requirements 42 sem. hrs.  
 A. Skills 12 sem. hrs.  
 ENG101 College Writing Skills (3)  
 ENG102 College Writing and Research Skills (3)  
 MATH105 College Algebra (3)  
 SEDU183 Tech. for Teaching and Learning (3)  
 B. Core 21 sem. hrs.  
 Artistic Expression – ENGL118 Intro to Poetry (3)  
 World Civilizations – HIST101 or HIST102 World Civ I or II or GEOG101 World Geography (3)  
 American Civilizations- HIST261 or HIST262 U.S. History I or II or GEOG260 Geography of U.S. and Canada (3)  
 Human Behavior – PSYC101 Introduction to Psychology (3)  
 Cultural Diversity and Social Pluralism – SEDU271 Multicult Amer Schools (3)  
 Ethics (3)  
 Natural Science – GEOS101 Dynamic Earth or GEOS109 Atmos & Space Sci(3)  
 C. Distribution 9 sem. hrs.  
 Humanities and Fine Arts- ENGL201 or 202 American Lit Survey I or II (3)  
 Social and Behavioral Sciences- HIST380 PA Hist (3)  
 Natural Science and Mathematics  
 II. Professional Education 43 sem. hrs.  
 SPED210 *Intro to Exception & Special Ed (3)*  
 MLED306 Literacy and the Young Adolescent (4)  
 MLED350 *Characteristics ML Learners (3)\*\**  
 MLED360 *Dev. Appropriate ML Feat/Prac (3)\*\**  
 SPED370 Adapt/Accom Inclusive Clssrm (3)\*\*\*

MLED381	Assessment for Learning Young Adoles (3)***	
MLED466	Integrated Lang Arts/Soc St ML (3)***	
MLED467	Integrated Math/Science ML (3)***	
MLED475	Middle Level Field Experience (3)***	
MLED491	ML Classroom Community (3)****	
MLED495	Student Teaching (12)****	
III. Specialization in Science and English		34 sem. hrs.
A. Required Courses		28 sem. hrs.
ENGL205	Multi-ethnic Amer Lit (3)	
ENGL211	Traditional Grammar (3)	
ENGL545	Adolescent Lit (3)	
BIOL150	Principles of Biology (4)	
BIOL230	Botany (4) Or	
BIOL240	Zoology (4)	
CHEM140	General Chemistry I (4)	
GEOS	300 level or above (3)	
PHYS201	Physics I (4)	
B. Supporting Courses		6 sem. hrs.
MATH250	Informal Geometry (3)	
MATH260	Elements of Statistics (3)	
IV. Free Elective		1 sem. hrs.
	TOTAL	120 sem. hrs.

\*A student in middle/secondary education must earn at least a grade of C in each course presented toward fulfillment of the minimum number of hours required for graduation and certification in the student’s major academic field and student teaching, including required supporting courses.

Courses in BOLD/Italics can be taken Pre-Candidacy

- \*\* Taken together
- \*\*\*Taken together
- \*\*\*\*Taken together

**BACHELOR OF SCIENCE IN EDUCATION – MIDDLE LEVEL SCIENCE & ENGL/LANG ARTS & READING (Suggested Eight-Semester Sequence)**

**Freshman Year**

**First Semester**

ENGL101	College Writing Skills (3)	
PSYC101	Introduction to Psychology (3)	
MATH105	College Algebra (3)	
ENGL118	Intro to Poetry (3)	
HIST 101	World Civilizations I (3) Or	
HIST102	World Civilizations II (3) Or	
GEOG101	World Geography (3)	
	Freshman Common Hour	
	TOTAL	15 sem. hrs.

**Second Semester**

ENGL 102	Writing and Research (3)	
SEDU 183	Technology for Teaching and Learning (3)	
SEDU 271	Multiculturalism in American Schools (3)	
BIOL150	Principles of Biology (4)	
GEOS101	Dynamic Earth (3) Or	
GEOS109	Atmosphere & Space Science (3)	
	TOTAL	16 sem. hrs.

**Sophomore Year**

**Third Semester**

SPED210	Intro to Exceptionalities/Spec Ed (3)	
MATH208	Essentials of Calculus (3)	
BIOL230	Botany (4) Or	
BIOL240	Zoology (4)	
ENGL201	American Lit Survey I (3) Or	
ENGL202	American Lit Survey II (3)	
	Free Elective (1)	
	TOTAL	14 sem. hrs.

**Fourth Semester**

MATH250	Informal Geometry (3)	
CHEM140	General Chem I (4)	
ENGL205	Multi-ethnic Literature (3)	
GEOS	300 level or above (3)	
HIST 261	History of U. S. I (3) Or	
HIST262	History of U.S. II (3) Or	
GEOG260	Geog of U.S. and Canada (3)	
	TOTAL	16 sem. hrs.

**Junior Year**

**Fifth Semester**

Core 6	Ethics (any) (3)	
ENGL211	Traditional Grammar (3)	
PHYS201	Physics I (4)	
MLED 350	Characteristics of ML Learners (3)	
MLED 360	Devel Appropriate Features & Prac (3)	
	TOTAL	16 sem. hrs.

**Sixth Semester**

HIST 380	Pennsylvania History (3)	
MATH260	Elements of Statistics (3)	
ENGL545	Adolescent Literature (3)	
MLED306	Literacy and the Young Adolescence (4)	
	TOTAL	13 sem. hrs.

**Senior Year**

**Seventh Semester**

SPED 370	Adapt/Accom in Inclusive Class (3)	
MLED 381	Assess for Learning of Young Adoles (3)	
MLED 466	Integra LgArts & SocStud ML Learner (3)	
MLED 467	Integra Math/ Science ML Learner (3)	
MLED 475	Middle Level Field (3)	
	TOTAL	15 sem. hrs.

**Eighth Semester**

MLED 491	ML Classroom Community	3 credits
MLED 495	Student Teaching	12 credits
	TOTAL	15 sem. hrs.

**BACHELOR OF SCIENCE IN EDUCATION**

**Area of Certification – Middle Level Science & Social Studies:**

**Option 2**

I. General Education Requirements		42 sem. hrs.
A. Skills		12 sem. hrs.
ENGL101	College Writing Skills (3)	
ENGL102	Specialized College Writing and Research Skills (3)	
MATH105	College Algebra (3)	
SEDU183	Tech. for Teaching and Learning (3)	
B. Core		21 sem. hrs.
	Artistic Expression (3)	
	World Civilizations – HIST101 or HIST102 (3)	
	American Civilizations- HIST261or HIST262 (3)	
	Human Behavior – PSYC101 (3)	
	Cultural Diversity and Social Pluralism – SEDU271 – Multicult. Amer. Schools (3)	
	Ethics (3)	
	Natural Science - GEOS101 or GEOS109 (3)	
C. Distribution		9 sem. hrs.
	Humanities and Fine Arts- English Lit 300 level or above (3)	
	Social and Behavioral Sciences- HIST380 (3)	
	Natural Sciences and Mathematics – MATH208 (3)	

II. Professional Education		43 sem. hrs.
<i>SPED210</i>	<i>Intro to Exception &amp; Special Ed (3)</i>	
MLED306	Literacy and the Young Adolescent (4)	
<i>MLED350</i>	<i>Characteristics ML Learners (3)**</i>	
<i>MLED360</i>	<i>Dev. Appropriate ML Feat/Prac (3)**</i>	
SPED370	Adapt/Accom Inclusive Clsrm (3)***	
MLED381	Assessment for Learning Young Adoles (3)***	
MLED466	Integrated Lang Arts/Soc St ML (3)***	
MLED467	Integrated Math/Science ML (3)***	
MLED475	Middle Level Field Experience (3)***	
MLED491	ML Classroom Community (3)****	
MLED495	Student Teaching (12)****	
III. Specialization in Science and Social Studies		34 sem. hrs.
A. Required Courses		28 sem. hrs.
BIOL150	Principles of Biology (4)	
BIOL230	Botany (4) Or	
BIOL240	Zoology	
CHEM140	General Chemistry I (4)	
GEOS	300 level or above (3)	
PHYS201	Physics I (4)	
ECON100	Elements of Econ (3)	
GEOG	200 level or above (3)	
POLI201	American Government (3)	
B. Supporting Courses		6 sem. hrs.
MATH250	Informal Geometry (3)	
MATH260	Elements of Statistics (3)	
IV. Free Elective		1 sem. hrs.
	<b>TOTAL</b>	<b>120 sem. hrs.</b>

\*A student in middle level education must earn at least a grade of C in each course presented toward fulfillment of the minimum number of hours required for graduation and certification in the student's major academic field and student teaching, including required supporting courses.

Courses in BOLD/Italics can be taken Pre-Candidacy

- \*\* Taken together
- \*\*\*Taken together
- \*\*\*\*Taken together

**BACHELOR OF SCIENCE IN EDUCATION – MIDDLE LEVEL SCIENCE & SOCIAL STUDIES: OPTION 2 (Suggested Eight-Semester Sequence)**

**Freshman Year**

**First Semester**

ENG101	College Writing Skills (3)	
PSYC101	Introduction to Psychology (3)	
MATH105	College Algebra (3)	
HIST 101	World Civilizations I (3) Or	
HIST102	World Civilizations II	
Core 1	Artistic Expression (any) (3)	
	Freshman Common Hour	
	<b>TOTAL</b>	<b>15 sem. hrs.</b>

**Second Semester**

ENGL 102	Writing and Research (3)	
SEDU 183	Technology for Teaching and Learning (3)	
BIOL150	Principles of Biology (4)	
SEDU 271	Multiculturalism in American Schools (3)	
GEOS101	Dynamic Earth (3) Or	
GEOS109	Atmospheric and Space Sciences	
	<b>TOTAL</b>	<b>16 sem. hrs.</b>

**Sophomore Year**

**Third Semester**

SPED 210	Intro to Exceptionalities/Spec Ed (3)	
BIOL230	Botany (4) Or	
BIOL240	Zoology	
MATH 208	Essentials of Calculus (3)	
HIST 261	History of U. S. I (3) Or	
HIST262	History of U. S. II	
	Free Elective (1)	
	<b>TOTAL</b>	<b>14 sem. hrs.</b>

**Fourth Semester**

MATH 250	Informal Geometry (3)	
CHEM140	General Chemistry I (4)	
ECON100	Elements of Economics (3)	
GEOG	200 level or above (3)	
GEOS	300 level or above (3)	
	<b>TOTAL</b>	<b>16 sem. hrs.</b>

**Junior Year**

**Fifth Semester**

PHYS201	Physics I (4)	
POLI201	American Government (3)	
MLED350	Characteristics of ML Learners (3)	
MLED360	Devel Appropriate Features & Prac (3)	
ETHICS	Core 6 (any) (3)	
	<b>TOTAL</b>	<b>16 sem. hrs.</b>

**Sixth Semester**

HIST 380	Pennsylvania History (3)	
MATH260	Elements of Statistics (3)	
MLED306	Literacy and the Young Adolescent (4)	
Dist 1	ENGL Literature 300 level or above (3)	
	<b>TOTAL</b>	<b>13 sem. hrs.</b>

**Senior Year**

**Seventh Semester**

SPED370	Adapt/Accom in Inclusive Classrms (3)	
MLED381	Assess for Learning of Young Adoles (3)	
MLED466	Integra LgArts & SocStud ML Learner (3)	
MLED467	Integra Math/ Science ML Learner (3)	
MLED475	Middle Level Field (3)	
	<b>TOTAL</b>	<b>15 sem. hrs.</b>

**Eighth Semester**

MLED491	ML Classroom Community (3)	
MLED495	Student Teaching (12)	
	<b>TOTAL</b>	<b>15 sem. hrs.</b>

**Secondary Education** - Edinboro University of Pennsylvania will provide for teacher candidates all of the Secondary concentrations as outlined in the Pennsylvania Department of Education framework. These include the following program areas:

- Biology
- Chemistry
- Comprehensive English
- Earth/Space Science
- Foreign Languages
  - o German
  - o Spanish
- General Science
- Mathematics
- Physics
- Social Studies

Graduates of the Bachelor of Science in Secondary Education will be able to:

- Accept the requirement to build a civil society that focuses on respect and embraces diversity.
- Demonstrate pedagogical skills built on a solid foundation of discipline-specific content, reinforced by a broad liberal arts education and supervised by clinical experiences.
- Effectively utilize community resources to support the educational and personal growth of learners.
- Engage in a professional learning community committing themselves to excellence, continual study, practice, reflection, and self-improvement.
- Exhibit continual informed decision-making, planning, and facilitation of learning based on knowledge of research, best practices, state and national student performance standards and ethical standards of the profession.
- Give back to the community through civic action.
- Lead and monitor all student learners using motivational and management skills.
- Recognize the importance of technology and are able to utilize current and appropriate technology for instruction, administration, and facilitation of learning.
- Strive for congruence of professional and interpersonal dispositions to interact, communicate and collaborate effectively with students, families, colleagues, and the community.
- Utilize personal creativity, flexibility, and skill in assessing, creating and adapting instruction that provides opportunities for every student to be successful.

SEDU381	Assessment for Middle and Secondary Classrooms (3)	
SEDU491	Classroom Management in 7-12 Classrooms (3)	
SEDU495	Student Teaching (12)	
SPED210	Intro to Excep in Spec Ed (3)	
SPED370	Adapt & Accom Inclus Clsrms (3)	
III. Specialization in Biology		27 sem. hrs.
BIOL150	Principles of Biology (4)	
BIOL230	Botany (4)	
BIOL240	Zoology (4)	
BIOL300	Genetics (4)	
BIOL320	Plant Physiology (4) Or	
BIOL340	Animal Physiology (4)	
BIOL500	Ecology (4)	
	Biology Elective 300 level or above (3)	
IV. Required Supporting Courses		19 sem. hrs.
PHYS201	Physics I (4)	
PHYS202	Physics II (4)	
MATH260	Elements of Statistics (3)	
MATH211	Analyt Geom & Calc I (4)	
CHEM301	General Organic Chemistry (4)	
		TOTAL 127 sem. hrs.

\*\*A student in secondary education must earn at least a grade of C in each course presented toward fulfillment of the minimum number of hours required for graduation and certification in the student's major academic field and student teaching, including required supporting courses.

## Bachelor of Science in Education Degree

### Area of Certification – Secondary Biology

I. General Education Requirements		45 sem. hrs.
A. Skills		13 sem. hrs.
ENGL101	College Writing Skills (3)	
ENGL102	Specialized College Writing and Research Skills (3)	
MATH107	Pre-Calculus (4)	
SEDU183	Tech. for Teaching and Learning (3)	
B. Core		22 sem. hrs.
	Artistic Expression (3)	
	World Civilizations (3)	
	American Civilizations (3)	
	Human Behavior – PSYC101 (3)	
	Cultural Diversity and Social Pluralism- SEDU271 Multi-cult in Amer Schools (3)	
	Ethics GEOG145 Environmental Issues (3)	
	Natural Science – CHEM240 Principles of Chemistry I (4)	
C. Distribution		10 sem. hrs.
	Humanities and Fine Arts - English Literature 300 level or above (3)	
	Social and Behavioral Sciences (3)	
	Natural Sciences and Mathematics CHEM241 Principles of Chem II (4)	
II. Professional Education		36 sem. hrs.
SEDU306	Content Literacy in the Middle and Secondary Schools (3)	
SEDU350	Theory & Practices in Secondary Schools (3)	
SEDU472	Instructional Techniques for Secondary Science (3)	
SEDU476	Middle/Secondary Field Experience (3)	

### BACHELOR OF SCIENCE IN EDUCATION – SECONDARY BIOLOGY (Suggested Eight-Semester Sequence)

#### Freshman Year

##### **First Semester**

ENGL101	College Writing Skills (3)	
BIOL150	Principles of Biology (4)	
MATH107	Pre-Calculus (4)*	
PSYC101	Introduction to Psychology (3)	
Core 1	Artistic Expression (any) (3)	
	Freshman Common Hour	
		TOTAL 17 sem. hrs.

##### **Second Semester**

SEDU183	Tech. for Teaching and Learning (3)	
ENGL102	Specialized College Writing and Research Skills (3)	
Core 2	World Civilizations (any) (3)	
GEOG145	Environmental Issues (3)	
BIOL230	Botany (4)	
		TOTAL 16 sem. hrs.

#### Sophomore Year

##### **Third Semester**

PHYS201	Physics I (4)	
SEDU271	Multicult in Amer Schools (3)	
CHEM240	Principles of Chem I (4)	
BIOL240	Zoology (4)	
Core (3)	American Civilizations (3)	
		TOTAL 18 sem. hrs.

##### **Fourth Semester**

SPED210	Intro to Except/Spec Ed (3)	
MATH260	Elements of Statistics (3)	
PHYS202	Physics II (4)	
CHEM241	Principles of Chemistry II (4)	
Dist 1	English Literature 300 level or above (3)	
		TOTAL 17 sem. hrs.



**Junior Year****Fifth Semester**

BIOL300	Genetics (4)	
BIOL320	Plant Physiology (4) Or	
BIOL340	Animal Physiology (4)	
MATH211	Analytical Geometry & Calculus I (4)	
Dist 2	Social/Behavioral Science (3)	
	<b>TOTAL</b>	15 sem. hrs.

**Sixth Semester**

BIOL400	Ecology (4)	
CHEM301	General Organic Chemistry (4)	
BIOL	Elective 300 level or above (3)	
SEDU350	Theory & Practices in Secondary Schools (3)	
	<b>TOTAL</b>	14 sem. hrs.

**Senior Year****Seventh Semester**

SEDU306	Content Literacy in Mid/Sec Schools (3)	
SEDU472	Instructional Techniques for Secondary Science (3)	
SEDU476	Mid/Sec. Ed. Field Experience (3)	
SEDU381	Assessment for Middle and Secondary Classrooms (3)	
SPED370	Adapt & Accom Inclu Clsrm (3)	
	<b>TOTAL</b>	15 sem. hrs.

**Eighth Semester**

SEDU491	Classroom Management in 7-12 Classrooms (3)	
SEDU495	Student Teaching (12)	
	<b>TOTAL</b>	15 sem. hrs.

**Bachelor of Science in Education Degree****Area of Certification – Secondary Chemistry**

I.	General Education Requirements	45 sem. hrs.
A.	Skills	13 sem. hrs.
	ENGL101	College Writing Skills (3)
	ENGL102	Specialized College Writing and Research Skills (3)
	MATH107	Pre-Calculus (4)
	SEDU183	Tech. for Teaching and Learning (3)
B.	Core	22 sem. hrs.
		Artistic Expression (3)
		World Civilizations (3)
		American Civilizations (3)
		Human Behavior – PSYC101 – Introduction to Psychology (3)
		Cultural Diversity and Social Pluralism – SEDU271 Multi-cult Amer. Schools (3)
		Ethics (3)
		Natural Science – CHEM240 Principles of Chemistry I (4)
C.	Distribution	10 sem. hrs.
		Humanities and Fine Arts (3)
		Social and Behavioral Sciences (3)
		Natural Sciences and Mathematics
	MATH211	Analytic Geom & Calc I (4)
II.	Professional Education	33 sem. hrs.
	SEDU306	Content Literacy in the Middle and Secondary Schools (3)
	SEDU350	Theory & Practices in Secondary Schools (3)
	SEDU472	Instructional Techniques for Secondary Science (3)
	SEDU476	Middle/Secondary Field Experience (3)
	SEDU381	Assessment for Middle and Secondary Classrooms (3)

SPED210	Intro to Except/Spec Ed (3)	
SPED370	Adapt & Accom Inclu Clsrm (3)	
SEDU491	Classroom Management in 7-12 Classrooms (3)	
SEDU495	Student Teaching (12)	
III.	Specialization in Chemistry	29 sem. hrs.
	CHEM241	Principles of Chemistry II (4)
	CHEM280	Laboratory Safety I (1)
	CHEM341	Biochemistry (4)
	CHEM310	Quantitative Analysis (4)
	CHEM330	Organic Chemistry I (4)
	CHEM331	Organic Chemistry II (4)
	CHEM530	Physical Chemistry I (4)
	CHEM531	Physical Chemistry II (4)
IV.	Required Supporting Courses	18 sem. hrs.
	MATH212	Analytical Geometry and Calculus II (4)
	MATH260	Elements of Statistics (3)
	PHYS201	Physics I (4)*
	PHYS202	Physics II (4)*
	GEOS101	Dynamic Earth (3)
	<b>TOTAL</b>	128 sem. hrs.

\* Counts as General Education.

\*\*A student in secondary education must earn at least a grade of C in each course presented toward fulfillment of the minimum number of hours required for graduation and certification in the student's major academic field and student teaching, including required supporting courses.

**BACHELOR OF SCIENCE IN EDUCATION – SECONDARY CHEMISTRY****(Suggested Eight-Semester Sequence)****Freshman Year****First Semester**

CHEM240	Principles of Chemistry I (4)	
ENGL101	College Writing Skills (3)	
MATH107	Pre-Calculus (4)*	
PSYC101	Introduction to Psychology (3)	
Core 1	Artistic Expression (Literature) (3)	
	Freshman Common Hour	
	<b>TOTAL</b>	17 sem. hrs.

**Second Semester**

ENGL102	Specialized College Writing and	
	Research Skills (3)	
SEDU183	Tech. for Teaching and Learning (3)	
Core 2	World Civilizations (any) (3)	
CHEM241	Principles of Chemistry II (4)	
CHEM280	Laboratory Safety I (1)	
	<b>TOTAL</b>	14 sem. hrs.

**Sophomore Year****Third Semester**

CHEM341	Biochemistry (4)	
MATH211	Anal. Geom. and Calc. I (4)	
PHYS201	Physics I (4)	
SEDU271	Multicult Amer Schools (3)	
GEOS101	Dynamic Earth (3)	
	<b>TOTAL</b>	18 sem. hrs.

**Fourth Semester**

CHEM310	Quantitative Analysis (4)	
PHYS202	Physics II (4)	
MATH212	Anal Geom and Calc II (4)	
SPED210	Intro to Except/Sped Ed (3)	
Core 3	American Civilizations (3)	
	<b>TOTAL</b>	18 sem. hrs.

**Junior Year**

**Fifth Semester**

CHEM330	Organic Chemistry I (4)	
CHEM530	Physical Chemistry I (4)	
MATH260	Elements of Statistics (3)	
Core 6	Ethics (any) (3)	
Dist 1	Humanities and Fine Arts (3)	
	<b>TOTAL</b>	17 sem. hrs.

**Sixth Semester**

CHEM331	Organic Chemistry II (4)	
CHEM531	Physical Chemistry II (4)	
Dist 2	Social and Behavioral Science (3)	
SEDU350	Theory & Practices in Secondary Schools (3)	
	<b>TOTAL</b>	14 sem. hrs.

**Senior Year**

**Seventh Semester**

SEDU306	Content Literacy (3)	
SEDU381	Assessment for Middle and Secondary Classrooms (3)	
SEDU472	Instructional Techniques (3)	
SEDU476	Mid./Sec. Ed. Field Experience (3)	
SPED370	Adapt & Accom Inclu Clsrm (3)	
	<b>TOTAL</b>	15 sem. hrs.

**Eighth Semester**

SEDU491	Pro. Perform Mid./Sec. (3)	
SEDU495	Student Teaching (12)	
	<b>TOTAL</b>	15 sem. hrs.

**Bachelor of Science in Education Degree**

**Area of Certification – Secondary Comprehensive English**

I.	General Education Requirements	42 sem. hrs.
	A. Skills	12 sem. hrs.
	ENGL101	College Writing Skills (3)
	ENGL102	Specialized College Writing and Research Skills (3)
	MATH104	Finite Math or higher math (3)
	SEDU183	Technology for Teaching and Learning (3)
	B. Core	21 sem. hrs.
		Artistic Expression – THEA218 Intro to Theater (3)
		World Civilizations (3)
		American Civilizations (3)
		Human Behavior – PSYC101
		Introduction to Psychology (3)
		Cultural Diversity and Social Pluralism
		SEDU271 Multi-Culturalism/Amer Schools (3)
		Ethics (3)
		Natural Science (3)
	C. Distribution	9 sem. hrs.
		Humanities and Fine Arts
	ENGL201	American Lit Survey I (3)
		Social and Behavioral Sciences (3)
		Natural Sciences and Mathematics (3)
II.	Professional Education	33 sem. hrs.
	SEDU306	Content Literacy in the Middle and Secondary Schools (3)
	SEDU350	Theory & Practices in Secondary Schools (3)
	SEDU465	Instructional Techniques for English (3)
	SEDU476	Middle/Secondary Field Experience (3)

SEDU381	Assessment for Middle and Secondary Classrooms (3)	
SPED210	Intro to Except and Spec Ed (3)	
SPED370	Adapt & Accom Inclu Clsrm	
SEDU491	Classroom Mgmt. in 7-12 Classrooms (3)	
SEDU495	Student Teaching (12)	
III.	Specialization in English	30 sem. hrs.
	Core Course	
COMM107	Fundamentals of Speech (3)	
ENGL202	American Lit. Survey II (3)	
ENGL205	Multi-ethnic American Lit (3)	
ENGL209	Foundations of Lit. Study (3)	
ENGL211	Traditional Grammar (3)	
ENGL489	Lit. Criticism: Theory (3)	
ENGL499	Thesis Seminar in Lit. (3)	
ENGL521	Hist: English Lang. (3)	
ENGL525	Composition Theory (3)	
ENGL545	Adolescent Literature (3)	
	Ancient/Classical/Renaissance	6 sem. hrs.
ENGL260	Lit. of Ancient/Classical World Or	
ENGL261	Medieval and Renaissance Lit (3)	
ENGL315	Shakespeare I Or	
ENGL319	Shakespeare II (3)	
	British Literature	6 sem. hrs.
ENGL241	British Literature Survey I (3)	
ENGL242	British Literature Survey II (3)	
	Topic/Author Course	3 sem. hrs.
ENGL332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 411, 412, 413, 414, 415, 416 (3)		
	<b>TOTAL</b>	123 sem. hrs.

\*Counts as General Education.

\*\*A student in secondary education must earn at least a grade of C in each course presented toward fulfillment of the minimum number of hours required for graduation and certification in the student's major academic field and student teaching, including required supporting courses.

**BACHELOR OF SCIENCE IN EDUCATION – COMPREHENSIVE ENGLISH (Suggested Eight-Semester Sequence)**

**Freshman Year**

**First Semester**

COMM107	Fundamentals of Speech (3)	
ENGL101	College Writing Skills (3)	
MATH104	Finite Math or higher math (3)	
PSYC101	Introduction to Psychology (3)	
THEA218	Intro to Theatre (3)	
	Freshman Common Hour	
	<b>TOTAL</b>	15 sem. hrs.

**Second Semester**

ENGL102	Specialized College Writing and Research Skills (3)	
ENGL201	American Literature Survey (3)	
SEDU183	Tech. for Teaching and Learning (3)	
Core 3	American Civilizations (any) (3)	
Dist 3	MATH- 100 level or higher (3)	
	<b>TOTAL</b>	15 sem. hrs.

**Sophomore Year**

**Third Semester**

ENGL202	American Literature Survey II (3)	
ENGL209	Foundations of Literature Study (3)	
ENGL211	Traditional Grammar (3)	
ENGL	Topic/Author Selection Elective (3)	
SEDU271	Multiculture in Amer Schools (3)	
Core 2	World Civilizations (any) (3)	
	<b>TOTAL</b>	18 sem. hrs.

**Fourth Semester**

ENGL241	British Literature Survey I (3)		
ENGL205	Multi-Ethnic American Lit. (3)		
SPED210	Intro to Except/ Spec Ed (3)		
ENGL260	Literature: Classical World (3) Or		
ENGL261	Medieval and Renaissance Literature		
Core 6	Ethics (3)		
	<b>TOTAL</b>	<b>15 sem. hrs.</b>	

**Junior Year****Fifth Semester**

ENGL242	British Literature Survey II (3)		
ENGL315	Shakespeare I (3) Or		
ENGL319	Shakespeare II		
ENGL489	Literature Criticism: Theory (3)		
ENGL525	Composition Theory (3)		
Core 7	Natural Science (3)		
	<b>TOTAL</b>	<b>15 sem. hrs.</b>	

**Sixth Semester**

ENGL499	Thesis Seminar in Literature (3)		
ENGL521	History of English Language (3)		
ENGL545	Adolescent Literature (3)		
Dist 2	Social and Behavioral Science (3)		
SEDU350	Theory & Practices in Secondary Schools (3)		
	<b>TOTAL</b>	<b>15 sem. hrs.</b>	

**Senior Year****Seventh Semester**

SEDU306	Content Literacy (3)		
SEDU381	Assessment for Middle and Secondary Classrooms (3)		
SEDU465	Instructional Techniques (3)		
SEDU476	Middle/Secondary Education Field Experience (3)		
SPED370	Adapt & Accom Includ Clsrm (3)		
	<b>TOTAL</b>	<b>15 sem. hrs.</b>	

**Eighth Semester**

SEDU491	Classroom Mgmt. in 7-12 Classrooms (3)		
SEDU495	Student Teaching (12)		
	<b>TOTAL</b>	<b>15 sem. hrs.</b>	

**Bachelor of Science in Education Degree****Area of Certification – Secondary Earth and Space Science**

I.	General Education Requirements	43 sem. hrs.
A.	Skills	13 sem. hrs.
	ENGL101 College Writing Skills (3)	
	ENGL102 Specialized College Writing and Research Skills (3)	
	MATH107 Precalculus (4)*	
	SEDU183 Tech. for Teaching and Learning (3)	
B.	Core	21 sem. hrs.
	Artistic Expression (3)	
	World Civilizations (3)	
	American Civilizations (3)	
	Human Behavior – PSYC101 (3)	
	Cultural Diversity and Social Pluralism- SEDU271 Multi-cult Amer Schools (3)	
	Ethics (3)	
	Natural Science – BIOL100 Intro to Biology (3)	
C.	Distribution	9 sem. hrs.
	Humanities and Fine Arts – English Literature 300 level or above (3)	
	Social and Behavioral Sciences – 300 level or above (3)	

	Natural Sciences and Mathematics	
	Intro to Oceanography (3)	
II.	Professional Education	36 sem. hrs.
	SEDU306 Content Literacy in the Middle/ Secondary Schools (3)	
	SEDU350 Theory & Practices in Secondary Schools (3)	
	SEDU472 Instructional Techniques for Secondary Science (3)	
	SEDU476 Middle/Secondary Field Experience (3)	
	SEDU381 Assessment for Middle and Secondary Classrooms (3)	
	SPED210 Intro to Except/Spec Ed	
	SPED370 Adapt & Accom Includ Clsrm	
	SEDU491 Classroom Management in 7-12 Classrooms (3)	
	SEDU495 Student Teaching (12)	
III.	Specialization in Earth and Space Science	29 sem. hrs.
	GEOS101 Dynamic Earth (3)	
	GEOS112 Principles of Earth History (3)	
	GEOS320 Meteorology I (3)	
	GEOS375 Environmental Geology (3)	
	PHYS271 Frontiers of Astronomy (3)	
	Field Course (3)	
	GEOS Electives (choose 11 credits) - GEOS311, 505, 510, 521, 523, 531, 541, 545	
IV.	Required Supporting Courses	15-16 sem. hrs.
	CHEM240 Principles of Chemistry I (4)	
	PHYS201 Physics I (4)*	
	PHYS202 Physics II (4)* Or	
	CHEM241 Principles of Chemistry II (4)	
	MATH211 Analy Geometry & Calc I (4) Or	
	MATH260 Elements of Statistics (3)	
	<b>TOTAL</b>	<b>123-124 sem. hrs.</b>

\*Counts as General Education.

\*\*A student in secondary education must earn at least a grade of C in each course presented toward fulfillment of the minimum number of hours required for graduation and certification in the student's major academic field and student teaching, including required supporting courses.

**BACHELOR OF SCIENCE IN EDUCATION – SECONDARY EARTH/SPACE SCIENCE (Suggested Eight-Semester Sequence)****Freshman year****First Semester**

BIOL100	Intro to Biology (3)
ENGL101	College Writing Skills (3)
GEOS101	Dynamic Earth (3)
MATH107	Pre Calculus (4)*
PSYC101	Introduction to Psychology (3)
	Freshman Common Hour
	<b>TOTAL</b>
	<b>16 sem. hrs.</b>

**Second Semester**

ENGL102	Specialized College Writing and Research Skills (3)
GEOS112	Principles of Earth History (3)
PHYS271	Frontiers of Astronomy (3)
SEDU183	Tech. for Teaching and Learning (3)
	Core 1 Artistic Expression (any) (3)
	<b>TOTAL</b>
	<b>15 sem. hrs.</b>

**Sophomore Year**

**Third Semester**

CHEM240	Principles of Chemistry I (4)
PHYS201	Physics I (4)
SEDU271	MultiCult Amer Schools (3)
MATH211	Analytical Geometry and Calculus I (3 or 4) Or
MATH260	Elements of Statistics
Core 2	World Civilizations (any) (3)
	TOTAL 17-18 sem. hrs.

**Fourth Semester**

CHEM241	Principles of Chemistry II (4) Or
PHYS202	Physics II
GEOS310	Introduction to Oceanography (3)
SPED210	Intro to Excep/Spec Ed (3)
	Core 3 American Civilizations (3)
	Core 6 Ethics (any) (3)
	TOTAL 16 sem. hrs.

**Junior Year**

**Fifth Semester**

GEOS320	Meteorology I (3)
GEOS375	Environmental Geology (3)
Dist 1	English Lit.- 300 level or above (3)
Dist 2	Social & Behavioral Sciences-300 level or above (3)
	TOTAL 15 sem. hrs.

**Sixth Semester**

GEOS Elective	GEOS 311, 505, 507, 510, 521, 523, 531, 541 or 545 (11)
SEDU350	Theory & Practices in Secondary Schools (3)
	TOTAL 14 sem. hrs.

**Senior Year**

**Seventh Semester**

SEDU476	Middle/Secondary Education Field Experience (3)
SEDU472	Instructional Techniques for Secondary Science (3)
SEDU306	Content Literacy (3)
SEDU381	Assessment for Middle and Secondary Classrooms (3)
SPED370	Adapt & Accom Inclu Clsrm (3)
	TOTAL 15 sem. hrs.

**Eighth Semester**

SEDU491	Classroom Management in 7-12 Classrooms (3)
SEDU495	Student Teaching (12)
	TOTAL 15 sem. hrs.

**Bachelor of Science in Education Degree**

**Area of Certification – Secondary General Science**

I. General Education Requirements	44 sem. hrs.
A. Skills	13 sem. hrs.
ENGL101	College Writing Skills (3)
ENGL102	Specialized College Writing and Research Skills (3)
MATH107	Pre Calculus (4)*
SEDU183	Tech.for Teaching and Learning (3)
B. Core	22 sem. hrs.
Artistic Expression (3)	
World Civilizations (3)	
American Civilizations (3)	
Human Behavior – PSYC101 (3)	

	Cultural Diversity and Social Pluralism – SEDU271 Multicult Amer Schools (3)	
	Ethics (3)	
	Natural Science – BIOL150 Principles of Biology (4)	9 sem. hrs.
C. Distribution	Humanities and Fine Arts – English Literature 300 level or above (3)	
	Social and Behavioral Sciences – 300 level or above (3)	
	Natural Sciences and Mathematics	
	BIOL304	Biology of Aging (3)
II. Professional Education	SEDU306	36 sem. hrs.
	SEDU350	Content Literacy in the Middle and Secondary Schools (3)
	SEDU472	Theory & Practices in Secondary Schools (3)
	SEDU476	Instructional Techniques for Secondary Science (3)
	SEDU381	Middle/Secondary Field Experience (3)
	SEDU491	Assessment for Middle and Secondary Classrooms (3)
	SEDU495	Classroom Management in 7-12 Classrooms (3)
	SPED210	Student Teaching (12)
	SPED370	Intro to Except and Spec Ed (3)
III. Specialization in General Science		42-43 sem. hrs.
	GEOS101	The Dynamic Earth (3)
	GEOS112	Principles of Earth History (3)
	GEOS302	Our Hazardous Planet (3)
	GEOS320	Meteorology I (3)
	MATH211	Analytic Geometry and Calculus I (4) Or
	MATH260	Elements of Statistics (3)
	BIOL300	Genetics (4)
	BIOL230	Botany Or
	BIOL240	Zoology (4)
	CHEM140	General Chemistry I (4)
	CHEM301	Gen Organic Chem (4)
	CHEM341	Biochemistry (4)
	PHYS201	Physics I (4)
	PHYS202	Physics II (4)
	PHYS271	Frontiers in Astronomy (3)
		TOTAL 126 sem. hrs.

\*\*A student in secondary education must earn at least a grade of C in each course presented toward fulfillment of the minimum number of hours required for graduation and certification in the student’s major academic field and student teaching, including required supporting courses.

**BACHELOR OF SCIENCE IN EDUCATION – SECONDARY GENERAL SCIENCE (Suggested Eight-Semester Sequence)**

**Freshman Year**

**First Semester**

ENGL101	College Writing Skills (3)
BIOL150	Principles of Biology (4)
MATH107	Pre Calculus (4)*
GEOS101	Dynamic Earth (3)
PSYC101	Introduction to Psychology (3)
	Freshman Common Hour
	TOTAL 17 sem. hrs.

**Second Semester**

ENGL102	Specialized College Writing and Research Skills (3)	
GEOS112	Principles of Earth History (3)	
SEDU183	Tech. for Teaching and Learning (3)	
	Core 1 Artistic Expression (any) (3)	
	Core 2 World Civilizations (any) (3)	
	<b>TOTAL</b>	15 sem. hrs.

**Sophomore Year****Third Semester**

CHEM140	General Chemistry I (4)	
PHYS201	Physics I (4)	
SEDU271	Multicult Amer Schools (3)	
GEOS302	Our Hazardous Planet (3)	
Distr 2	Social and Behavioral Science - 300 level or above (3) Core (3)	
	<b>TOTAL</b>	17 sem. hrs.

**Fourth Semester**

CHEM301	General Organic Chem (4)	
MATH211	Analytical Geometry and Calculus I (4) Or	
	Elements of Statistics	
MATH260	Physics II (4)	
PHYS202	Intro to Except and Spec Ed (3)	
SPED210	Core 3 American Civilizations (any) (3)	
	<b>TOTAL</b>	18 sem. hrs.

**Junior Year****Fifth Semester**

BIOL300	Genetics (4)	
CHEM302	Gen Bio Chemistry (4)	
Core 6	Ethics (3)	
Dist 1	English Literature 300 level or above (3)	
	<b>TOTAL</b>	14 sem. hrs.

**Sixth Semester**

BIOL230	Botany Or	
BIOL240	Zoology (4)	
GEOS320	Meteorology I (3)	
BIOL304	Biology of Aging (3)	
PHYS271	Frontiers in Astronomy (3)	
SEDU350	Theory & Practices in Secondary Schools (3)	
	<b>TOTAL</b>	16 sem. hrs.

**Senior Year****Seventh Semester**

SEDU476	Middle/Secondary Field Experience (3)	
SEDU472	Instructional Techniques for Secondary Science (3)	
SEDU306	Content Literacy (3)	
SEDU381	Assessment for Middle and Secondary Classrooms (3)	
SPED370	Adapt & Accom Inclu Clsrm (3)	
	<b>TOTAL</b>	15 sem. hrs.

**Eighth Semester**

SEDU491	Classroom Management in 7-12 Classrooms (3)	
SEDU495	Student Teaching (12)	
	<b>TOTAL</b>	15 sem. hrs.

**Bachelor of Science in Education Degree****Area of Certification – Secondary Mathematics**

I.	General Education Requirements	44 sem. hrs.
A.	Skills	13 sem. hrs.
	ENGL101	College Writing Skills (3)
	ENGL102	Specialized College Writing and Research Skills (3)
	MATH107	Pre-Calculus (4)
	SEDU183	Tech for Teaching and Learning (3)
B.	Core	21 sem. hrs.
		Artistic Expression (3)
		World Civilizations (3)
		American Civilizations (3)
		Human Behavior
		PSYC101 (3)
		Cultural Diversity and Social Pluralism – SEDU271 Multicult Amer Schools (3)
		Ethics (3)
		Natural Science (3)
C.	Distribution	10 sem. hrs.
		Humanities and Fine Arts
		Social and Behavioral Sciences (3)
		Natural Sciences and Mathematics
		MATH211 Analy Geom & Calc I (4)
II.	Professional Education	36 sem. hrs.
	SEDU306	Content Literacy in the Middle/ Secondary Schools (3)
	SEDU350	Theory & Practices in Secondary Schools (3)
	SEDU381	Assessment for Middle and Secondary Classrooms (3)
	SEDU471	Instructional Techniques for Mathematics (3)
	SEDU476	Middle/Secondary Field Experience (3)
	SEDU491	Classroom Management in 7-12 Classrooms (3)
	SEDU495	Student Teaching (12)
	SPED210	Intro to Except. and Spec. Ed. (3)
	SPED370	Adapt. & Accom. Inclu. Clsrm (3)
III.	Specialization in Mathematics	41 sem. hrs.
A.	Required Courses	35 sem. hrs.
	MATH212	Analy Geom & Calc II (4)
	MATH311	Analytic Geometry and Calculus III (4)
	MATH270	Discrete Mathematics I (3)
	MATH275	Linear Algebra (3)
	MATH350	Mathematical Probability & Statistics (3)
	MATH353	College Geometry (3)
	MATH370	Discrete Mathematics II (3)
	MATH372	Hist. Roots of Math. (3)
	MATH403	Math for Sec. Sch. Tch. (3)
	MATH404	Comp./Calc. in SEMA (3)
	MATH411	Intro to Analysis (3)
	MATH421	Abstract Algebra (3)
	MATH480	Mathematics Seminar (1)
B.	Related Course	3 sem. hrs.
	CSCI130	Principles of Programming (3)
	<b>TOTAL</b>	122 sem. hrs.

**BACHELOR OF SCIENCE IN EDUCATION – SECONDARY MATHEMATICS**

(Suggested Eight-Semester Sequence)

**Freshman Year**

**First Semester**

ENGL101	College Writing Skills (3)
MATH107	Pre-Calculus (4)*
PSYC101	Introduction to Psychology (3)
CSCI130	Principles of Programming (3)
Core 1	Artistic Expression (any) (3)
	Freshman Common Hour
	TOTAL 16 sem. hrs.

**Second Semester**

ENGL102	Specialized College and Writing Skills (3)
MATH211	Analytic Geometry and Calculus I (4)
SEDU183	Tech. for Teaching and Learning (3)
Core 2	World Civilizations (any) (3)
Core 6	Ethics (any) (3)
	TOTAL 16 sem. hrs.

**Sophomore Year**

**Third Semester**

MATH212	Analytic Geometry and Calculus II (4)
MATH270	Discrete Mathematics I (3)
SEDU271	Multicultural Amer Schools (3)
Core 3	American Civilizations (3)
	TOTAL 14 sem. hrs.

**Fourth Semester**

MATH275	Linear Algebra I (3)
MATH311	Analytic Geometry and Calculus III (4)
MATH370	Discrete Mathematics II (3)
SPED210	Intro. To Except. & Spec. Ed. (3)
Core 7	Natural Science (any) (3)
SEDU350	Theory & Practices in Secondary Schools (3)
	TOTAL 16 sem. hrs.

**Junior Year**

**Fifth Semester**

MATH350	Mathematical Prob/Statistics (3)
MATH353	College Geometry (3)
MATH372	Historical Root of Math (3)**
MATH403	Math for Sec Sch Tch. (3)**
Dist 1	Humanities and Fine Arts (any) (3)
	TOTAL 15 sem. hrs.

**Sixth Semester**

MATH404	Comp/Calc. in SEMA (3)**
MATH411	Math Analysis (3)
MATH421	Abstract Algebra (3)
MATH480	Math Seminar (1)
Dist 2	Social and Behavioral Science (any) (3)
	TOTAL 13 sem. hrs.

**Senior Year**

**Seventh Semester**

SEDU306	Content Literacy in the Middle/Secondary Schools (3)
SEDU471	Instructional Techniques for Mathematics (3)
SEDU381	Assessment for Middle and Secondary Classrooms (3)
SEDU476	Mid/Sec Ed Field Experience (3)
SPED370	Adapt. & Accom. Inclu. Clsrm. (3)
	TOTAL 15 sem. hrs.

**Eighth Semester**

SEDU491	Classroom Management in 7-12 Classrooms (3)
SEDU495	Student Teaching (12)
	TOTAL 15 sem. hrs.

**Bachelor of Science in Education Degree**

**Area of Certification – Secondary Physics**

I.	General Education Requirements	45 sem. hrs.
A.	Skills	13 sem. hrs.
	ENGL101	College Writing Skills (3)
	ENGL102	Specialized College Writing and Research Skills (3)
	MATH107	Pre-Calculus (4)
	SEDU183	Tech for Teaching and Learning (3)
B.	Core	22 sem. hrs.
		Artistic Expression (3)
		World Civilizations (3)
		American Civilizations (3)
		Human Behavior – PSYC101 (3)
		Cultural Diversity and Social Pluralism – SEDU271 Multicult Amer Schools(3)
		Ethics - GEOG145 Environmental Issues (3)
		Natural Science – CHEM240 Principles of Chem I (4)
C.	Distribution	10 sem. hrs.
		Humanities and Fine Arts (3)
		Social and Behavioral Sciences (3)
		Natural Sciences and Mathematics
		MATH211 Analyt Geom & Calc I (4)
II.	Professional Education	36 sem. hrs.
	SEDU306	Content Literacy in Mid/Sec Sch. (3)
	SEDU350	Theories and Practices in Secondary Schools (3)
	SEDU381	Assessment for Middle and Secondary Classrooms (3)
	SEDU472	Instructional Techniques for Secondary Science (3)
	SEDU476	Mid./Sec. Ed. Field Experience (3)
	SEDU491	Classroom Management in 7-12 Classrooms (3)
	SEDU495	Student Teaching (12)
	SPED210	Intro to Except and Spec Ed (3)
	SPED370	Adapt & Accom Inclu Clsrm (3)
III.	Specialization in Physics	31 sem. hrs.
A.	Required Courses	(22 sem. hrs.)
	PHYS150	Physics Orientation (3)
	PHYS312	Technical Electronics II (4)
	PHYS320	University Physics I (4)
	PHYS321	University Physics II (4)
	PHYS322	Physical Measurements I (1)
	PHYS323	Physical Measurements II (1)
	PHYS325	Intro. to Modern Physics (3)
	PHYS305/404/405	Advanced Lab* (2)
		* Select one course from the above
B.	Physics Electives (9)	
		Take 3 of the following 5:
	PHYS420	Mechanics I (3)
	PHYS430	Electricity and Mag. I (3)
	PHYS441	Thermal Physics (3)
	PHYS453	Quantum Physics (3)
	PHYS449	Math. Methods in Phys. (3)
IV.	Required Supporting Courses	14 sem. hrs.
	BIOL100	Intro to Biology (3)
	CHEM241	Principles of Chemistry II (4)
	MATH212	Analyt Geom & Calc II (4)
	MATH317	Intro. to Diff. Equations (3)
V.	Free Electives (3)	
		TOTAL 126 sem. hrs.

\*Counts as General Education.

\*\*A student in secondary education must earn at least a grade of C in each course presented toward fulfillment of the minimum number of hours required for graduation and certification in the student's major academic field and student teaching, including required supporting courses.

**BACHELOR OF SCIENCE IN EDUCATION –  
SECONDARY PHYSICS  
(Suggested Eight-Semester Sequence)**

**Freshman Year**

**First Semester**

ENGL101	College Writing Skills (3)
PHYS150	Physics Orientation (3)
MATH107	Pre-Calculus (4)*
PSYC101	Introduction to Psychology (3)
Core 1	Artistic Expression (Literature) (3)
	Freshman Common Hour
	<b>TOTAL 16 sem. hrs.</b>

**Second Semester**

ENGL102	Specialized College Writing and Research Skills (3)
MATH211	Analytic Geom. and Calculus I (4)
SEDU183	Tech. for Teaching and Learning (3)
BIOL100	Intro to Biology (3)
GEOG145	Environmental Issues (3)
	<b>TOTAL 16 sem. hrs.</b>

**Sophomore Year**

**Third Semester**

SEDU271	Multicult in Amer Schools (3)
MATH212	Analytic Geometry and Calculus II (4)
CHEM240	Principles of Chemistry I (4)
PHYS320	University Physics I (4)
PHYS322	Physical Measurements I (1)
	<b>TOTAL 16 sem. hrs.</b>

**Fourth Semester**

CHEM241	Principles of Chemistry II (4)
PHYS321	University Physics II (4)
PHYS323	Physical Measurements II (1)
SPED210	Intro to Except and Spec Ed (3)
Core 3	American Civilizations (any) (3)
	<b>TOTAL 15 sem. hrs.</b>

**Junior Year**

**Fifth Semester**

PHYS312	Technical Electronics II (4)
PHYS325	Intro. to Modern Physics (3)
MATH317	Intro. to Diff. Equations (3)
Core 2	World Civilizations (any) (3)
Dist 1	Humanities and Fine Arts (any) (3)
	<b>TOTAL 16 sem. hrs.</b>

**Sixth Semester**

Choose three from the following five physics electives (9):	
PHYS420, PHYS430, PHYS441, PHYS453, or PHYS449	
Choose one from the following Advanced Lab:	
PHYS305/404/405 (2)	
Dist 2	Social and Behavioral Sciences (any) (3)
SEDU350	Theories and Practices in Secondary Schools (3)
	<b>TOTAL 17 sem. hrs.</b>

**Senior Year**

**Seventh Semester**

SEDU306	Content Literacy Mid/Sec Schools (3)
SEDU476	Mid./Sec. Ed. Field Experience (3)
SEDU472	Instructional Tech for Sec Science (3)
SEDU381	Assessment for Middle and Secondary Classrooms (3)
SPED370	Adapt & Accom Inclu Clsrms (3)
	<b>TOTAL 15 sem. hrs.</b>

**Eighth Semester**

SEDU491	Classroom Management in 7-12 Classrooms (3)
SEDU495	Student Teaching (12)
	<b>TOTAL 15 sem. hrs.</b>

**Bachelor of Science in Education Degree**

**Area of Certification – Secondary Social Studies**

I.	General Education Requirements	42 sem. hrs.
	A.	Skills 12 sem. hrs.
	ENGL101	College Writing Skills (3)
	ENGL102	Specialized College Writing and Research Skills (3)
	MATH104	Finite Math or higher level (3)
	SEDU183	Tech for Teaching and Learning (3)
	B.	Core 21 sem. hrs.
		Artistic Expression (3)
		World Civilizations – HIST101 (3)
		American Civilizations – HIST261 (3)
		Human Behavior – PSYC101 (3)
		Cultural Diversity and Social Pluralism
		SEDU271 Multicul. Amer. Schools (3)
		Ethics (3)
		Natural Science (3)
	C.	Distribution 12 sem. hrs.
		Humanities and Fine Arts – Engl Lit 300 level or above (3)
		Social and Behavioral Sciences
		ECON220 Prin of Microeconomics (3)
		ECON225 Prin of Macroeconomics (3)
		Natural Sciences and Mathematics-
		Must be a MATH course(3)
II.	Professional Education	36 sem. hrs.
	SEDU306	Content Literacy in the Middle/ Secondary Schools (3)
	SEDU350	Theory & Practices in Secondary Schools (3)
	SEDU473	Instructional Techniques for Social Studies (3)
	SEDU476	Middle/Secondary Field Experience (3)
	SEDU381	Assessment for Middle and Secondary Classrooms (3)
	SEDU491	Classroom Management in 7-12 Classrooms (3)
	SEDU495	Student Teaching (12)
	SPED210	Intro to Except & Spec Ed (3)
	SPED370	Adapt & Accom Includ Clsrms (3)
III.	Specialization in Social Studies	36 sem. hrs.
	A.	Required Courses (36)
	ANTH180	Introduction to Anthropology (3)
	GEOG101	World Geography (3) Or
	GEOG130	Cultural Geography (3)
	GEOG300	Level course or above (3)
	HIST102	World Civilization II (3)
	HIST262	U.S. History II (3)

HIST380	Pennsylvania Hist (3)	
HIST100	Study of History (3) Or	
SOC250	Introduction to Sociological Research Methods (3)	
SOC100	Principles of Sociology (3)	
POLI101	Intro to American Politics (3)	
POLI315	American State and Local Government (3)	
POLI102	Introduction to Comparative Politics (3)	
PSYC390	Social Psychology (3) Or	
SOC326	Society and Indiv. (3)	
B.	History Electives-choose 1 U.S. and 1 World (6)	6 sem. hrs.
	U.S.: HIST315, 336, 361, 362, 363, 364, 366, 370, 373, 375, 376, 377, 378, 383, 405, 415	
	World: HIST 303, 305, 306, 309, 310, 312, 314, 316, 318, 319, 323, 324, 330, 331, 332, 339, 341, 346, 347, 353, 355, 357, 358	
IV.	Free Electives	3 sem. hrs.
	<b>TOTAL</b>	<b>123 sem. hrs.</b>

\*\*A student in secondary education must earn at least a grade of C in each course presented toward fulfillment of the minimum number of hours required for graduation and certification in the student's major academic field and student teaching, including required supporting courses.

**BACHELOR OF SCIENCE IN EDUCATION – SECONDARY SOCIAL STUDIES (Suggested Eight-Semester Sequence)**

**Freshman Year**

**First Semester**

ENGL101	College Writing Skills (3)	
HIST101	World Civilization I (3)	
HIST100	Study of History (3) Or	
SOC250	Introduction to Sociological Research Methods	
MATH104	Finite Math or higher level (3)	
PSYC101	Introduction to Psychology (3)	
	<b>TOTAL</b>	<b>15 sem. hrs.</b>

**Second Semester**

HIST261	History of U.S. I (3)	
ENGL102	Specialized College Writing and Research Skills (3)	
SOC100	Principles of Sociology (3)	
ANTH180	Introduction to Anthropology (3)	
	Dist 1 Engl Lit 300 level or above (3)	
	<b>TOTAL</b>	<b>15 sem. hrs.</b>

**Sophomore Year**

**Third Semester**

ECON220	Principles of Microeconomics (3)	
HIST102	World Civilizations II (3)	
SEDU271	Multi-cult Amer Schools (3)	
Dist 3	(MATH at the 100 level or higher (3)	
SPED210	Intro to Except and Spec Ed (3)	
	<b>TOTAL</b>	<b>15 sem. hrs.</b>

**Fourth Semester**

ECON225	Principles of Macroeconomics (3)	
HIST262	History of U.S. II (3)	
SEDU183	Tech. for Teaching and Learning (3)	
	Core 1 Artistic Expression (any) (3)	
	Core 6 Ethics (any) (3)	
	Core 7 Natural Science (any) (3)	
	<b>TOTAL</b>	<b>18 sem. hrs.</b>

**Junior Year**

**Fifth Semester**

GEOG101	World Geography (3) Or	
GEOG130	Cultural Geography	
HIST380	Pennsylvania History (3)	
POLI101	Intro to American Politics (3)	
SEDU350	Theory & Practices in Secondary Schools (3)	
	History Elective choose one U.S. History: (3)	
	U.S.: HIST315, 336, 361, 362, 363, 364, 366, 370, 373, 375, 376, 377, 378, 383, 405, 415	
	<b>TOTAL</b>	<b>15 sem. hrs.</b>

**Sixth Semester**

PSYC390	Social Psychology (3) Or	
SOC326	Society and the Individual (3)	
POLI315	American State and Local Government (3)	
POLI102	Intro to Comparative Government (3)	
	History Elective choose one World History (3):	
	World: HIST 303, 305, 306, 309, 310, 312, 314, 316, 318, 319, 323, 324, 330, 331, 332, 339, 341, 346, 347, 353, 355, 357, 358	
	Geography Elective – 300 level or above (3)	
	<b>TOTAL</b>	<b>15 sem. hrs.</b>

**Senior Year**

**Seventh Semester**

SEDU476	Mid./Sec. Ed. Field Experience (3)	
SEDU381	Assessment for Middle and Secondary Classrooms (3)	
SEDU306	Literacy in Mid/Sec Schools (3)	
SEDU473	Instruc. Techniques/Social Studies (3)	
SPED370	Adapt & Accom Includ Clsrm (3)	
	<b>TOTAL</b>	<b>15 sem. hrs.</b>

**Eighth Semester**

SEDU491	Classroom Management in 7-12 Classrooms (3)	
SEDU495	Student Teaching (12)	
	<b>TOTAL</b>	<b>15 sem. hrs.</b>

**Bachelor of Science in Education Degree**

**Biology/Special Education 7-12**

I.	General Education Requirements	45 sem. hrs.
A.	Skills	13 sem. hrs.
	ENGL101	College Writing Skills (3)
	ENGL102	Specialized College Writing and Research Skills (3)
	MATH107	Pre-Calculus (4)
	SEDU183	Tech. for Teaching and Learning (3)
B.	Core	22 sem. hrs.
	Artistic Expression (3)	
	World Civilizations (3)	
	American Civilizations (3)	
	Human Behavior – PSYC101 (3)	
	Cultural Diversity and Social Pluralism- SEDU271 Multi-cult in Amer Schools (3)	
	Ethics GEOG145 Environmental Issues (3)	
	Natural Science – CHEM240 Principles of Chemistry I (4)	
C.	Distribution	10 sem. hrs.
	Humanities and Fine Arts - English Literature 300 level or above (3)	
	Social and Behavioral Sciences (3)	
	Natural Sciences and Mathematics CHEM241 Principles of Chem II (4)	



II. Professional Education		51 sem. hrs.
SPED210	Intro Except and Spec Ed (3)	
SPED320	High Incidence Disabilities (3)	
SPED340	Low Incidence Disabilities (3)	
SPED335	Positive Behavior Support (3)	
SPED420	Assess Students w/Disabilities (3)	
SPED430	Collaboration & IEP Dev. (3)	
SPED380	Transitions in the Sec. Class (3)	
SPED461	Instructional Strategies I (3)	
SPED462	Instructional Strategies II (3)	
SPED440	Special Education Field (3)	
SEDU472	Instructional Techniques for Sciences (3)	
SEDU476	Sec. Ed. Field Experience (3)	
SEDU491	Prof. Perf. Mid/Sec Classroom (3)	
SEDU495	Student Teaching (6)	
SPED495	Student Teaching (6)	
III. Specialization in Biology		27 sem. hrs.
BIOL150	Principles of Biology (4)	
BIOL230	Botany (4)	
BIOL240	Zoology (4)	
BIOL300	Genetics (4)	
BIOL320	Plant Physiology (4) Or	
BIOL340	Animal Physiology (4)	
BIOL400	Ecology (4)	
Biology Elective	300 level or above (3)	
IV. Required Supporting Courses		19 sem. hrs.
PHYS201	Physics I (4)	
PHYS202	Physics II (4)	
MATH260	Elements of Statistics (3)	
MATH211	Analyt Geom & Calc I (4)	
CHEM301	General Organic Chemistry (4)	
	TOTAL	142 sem. hrs.

\*\*A student in secondary education must earn at least a grade of C in each course presented toward fulfillment of the minimum number of hours required for graduation and certification in the student's major academic field and student teaching, including required supporting courses.

### **BACHELOR OF SCIENCE IN EDUCATION – BIOLOGY/ SPECIAL ED 7-12 (Suggested Eight-Semester Sequence)**

#### **Freshman Year**

##### **First Semester**

ENGL101	College Writing Skills (3)	
MATH107	Pre-Calculus (4)	
PSYC101	General Psychology (Core 4) (3)	
BIOL150	Principles of Biology (4)	
CORE1	Artistic Expression (any) (3)	
	Freshman Common Hour	
	TOTAL	17 sem. hrs.

##### **Second Semester**

SEDU183	Tech. for Teaching and Learning (3)	
ENGL102	Specialized College Writing and Research Skills (3)	
Core 2	World Civilizations (any) (3)	
GEOG145	Environmental Issues (3)	
BIOL230	Botany (4)	
SPED210	Intro to Exception and Spec. Ed. (3)	
	TOTAL	19 sem. hrs.

#### **Sophomore Year**

##### **Third Semester**

SEDU271	Multi-Cul in Am Schools (Core 5) (3)	
PHYS201	Physics I (4)	
CHEM240	Principles of Chem I (Core 7) (4)	
SPED320	High Incidence Disabilities (3)	
SPED340	Low Incidence Disabilities (3)	
	TOTAL	17 sem. hrs.

##### **Fourth Semester**

CHEM241	Principles of Chemistry II (D-3) (4)	
PHYS202	Physics II (4)	
MATH260	Elements of Statistics (3)	
Distribution 1	Lit 300 level or above (3)	
Core 3	American Civ (any) (3)	
BIOL240	Zoology (4)	
	TOTAL	21 sem. hrs.

#### **Junior Year**

##### **Fifth Semester**

BIOL300	Genetics (4)	
MATH211	Analytical Geometry & Calculus I (4)	
BIOL320	Plant Physiology (4) Or	
BIOL340	Animal Physiology (4)	
Distribution 2	Social/Behavioral Science (3)	
SPED335	Positive Behavior Support (3)	
SPED420	Assessment of Students w/Disabilities (3)	
	TOTAL	21 sem. hrs.

##### **Sixth Semester**

BIOL400	Ecology (4)	
CHEM301	General Organic Chemistry (4)	
BIOL	Elective 300 level or above (3)	
SPED430	Collaboration and IEP Devl (3)	
SPED380	Transitions in the Sec. Class (3)	
	Free Elective (3)	
	TOTAL	17 sem. hrs.

#### **Senior Year**

##### **Seventh Semester**

SPED461	Instructional Strategies I/Disab (3)	
SPED462	Instructional Strategies II/Disab (3)	
SEDU472	Instructional Tech (3)	
SEDU476	Field Exp. Mid./Sec. Edu. (3)	
SPED440	Special Education Field (3)	
	TOTAL	15 sem. hrs.

##### **Eighth Semester**

SEDU491	Prof. Perf. Mid. Sec. Classroom (3)	
SEDU495	Sec. Student Teaching (6)	
SPED495	Sped. Student Teaching (6)	
	TOTAL	15 sem. hrs.

## **Bachelor of Science in Education Degree Chemistry/Special Education 7-12**

I. General Education Requirements		45 sem. hrs.
A. Skills		13 sem. hrs.
ENGL101	College Writing Skills (3)	
ENGL102	Specialized College Writing and Research Skills (3)	
MATH107	Pre-Calculus (4)	
SEDU183	Tech. for Teaching and Learning (3)	
B. Core		22 sem. hrs.
	Artistic Expression (3)	
	World Civilizations (3)	
	American Civilizations (3)	
	Human Behavior – PSYC101 –	
	Introduction to Psychology (3)	
	Cultural Diversity and Social Pluralism –	
	SEDU271 Multi-cult Amer. Schools (3)	

	Ethics (3)	
	Natural Science – CHEM240 Principles of Chemistry I (4)	
C. Distribution		10 sem. hrs.
	Humanities and Fine Arts (3)	
	Social and Behavioral Sciences (3)	
	Natural Sciences and Mathematics	
	MATH211 Analytic Geom & Calc I (4)	
II. Professional Education		51 sem. hrs.
	SPED210 Intro Except and Spec Ed (3)	
	SPED320 High Incidence Disabilities (3)	
	SPED340 Low Incidence Disabilities (3)	
	SPED335 Positive Behavior Support (3)	
	SPED420 Assess Students w/Disabilities (3)	
	SPED430 Collaboration & IEP Dev. (3)	
	SPED380 Transitions in the Sec. Class (3)	
	SPED461 Instructional Strategies I (3)	
	SPED462 Instructional Strategies II (3)	
	SPED440 Special Education Field (3)	
	SEDU472 Instructional Techniques for Sciences (3)	
	SEDU476 Field Exp. Mid./Sec. Edu. (3)	
	SEDU491 Prof. Perf. Mid/Sec Classroom (3)	
	SEDU495 Student Teaching (6)	
	SPED495 Student Teaching (6)	
III. Specialization in Chemistry		29 sem. hrs.
	CHEM241 Principles of Chemistry II (4)	
	CHEM280 Laboratory Safety I (1)	
	CHEM341 Biochemistry (4)	
	CHEM310 Quantitative Analysis (4)	
	CHEM330 Organic Chemistry I (4)	
	CHEM331 Organic Chemistry II (4)	
	CHEM530 Physical Chemistry I (4)	
	CHEM531 Physical Chemistry II (4)	
IV. Required Supporting Courses		18 sem. hrs.
	PHYS201 Physics I (4)	
	PHYS202 Physics II (4)	
	MATH212 Analytical Geometry and Calculus II (4)	
	MATH260 Elements of Statistics (3)	
	GEOS101 Dynamic Earth (3)	
	TOTAL	143 sem. hrs.

\*\*A student in secondary education must earn at least a grade of C in each course presented toward fulfillment of the minimum number of hours required for graduation and certification in the student's major academic field and student teaching, including required supporting courses.

### **BACHELOR OF SCIENCE IN EDUCATION - CHEMISTRY/SPECIAL ED 7-12 (Suggested Eight-Semester Sequence)**

#### **Freshman Year**

##### **First Semester**

ENGL101	College Writing Skills (3)	
MATH107	Pre-Calculus (4)	
PSYC101	Introduction to Psychology (Core 4) (3)	
CHEM240	Principles of Chemistry I (Core 7) (4)	
Core 1	Artistic Expression (Literature) (3)	
	Freshman Common Hour	
	TOTAL	17 sem. hrs.

##### **Second Semester**

ENGL102	Specialized College Writing and Research Skills (3)	
SEDU183	Tech. for Teaching and Learning (3)	
Core 2	World Civilizations (any) (3)	
CHEM241	Principles of Chemistry II (4)	
CHEM280	Laboratory Safety I (1)	
SPED210	Intro to Exception and Spec. Ed. (3)	
	TOTAL	17 sem. hrs.

#### **Sophomore Year**

##### **Third Semester**

SEDU271	Multicult Amer Schools (Core 5) (3)	
CHEM341	Biochemistry (4)	
PHYS201	Physics I (4)	
MATH211	Anal. Geom. and Calc. I (D-3) (4)	
SPED320	High Incidence Disabilities (3)	
SPED340	Low Incidence Disabilities (3)	
	TOTAL	21 sem. hrs.

##### **Fourth Semester**

PHYS202	Physics II (4)	
MATH212	Anal Geom and Calc II (4)	
CHEM310	Quantitative Analysis (4)	
Core 3	American Civilizations (any) (3)	
GEOS101	Dynamic Earth (3)	
Dist 1	Humanities and Fine Arts (any) (3)	
	TOTAL	21 sem. hrs.

#### **Junior Year**

##### **Fifth Semester**

CHEM330	Organic Chemistry I (4)	
CHEM530	Physical Chemistry I (4)	
MATH260	Elements of Statistics (3)	
Core 6	Ethics (any) (3)	
Dist 1	Humanities and Fine Arts (3)	
	TOTAL	17 sem. hrs.

##### **Sixth Semester**

CHEM331	Organic Chemistry II (4)	
CHEM531	Physical Chemistry II (4)	
Dist 2	Social and Behavioral Science (3)	
SPED430	Collaboration & IEP Dev. (3)	
SPED380	Transitions in Sec. Class (3)	
	TOTAL	17 sem. hrs.

#### **Senior Year**

##### **Seventh Semester**

SPED461	Instructional Strategies I/Disab (3)	
SPED462	Instructional Strategies II/Disab (3)	
SPED472	Instructional Techniques (3)	
SPED476	Field Exp. Mid./Sec. Edu. (3)	
SPED440	Special Education Field (3)	
SPED370	Adapt & Accom Inclu Clsrm (3)	
	TOTAL	15 sem. hrs.

##### **Eighth Semester**

SEDU491	Prof. Perf, Mid./Sec. (3)	
SEDU495	Sec. Student Teaching (6)	
SPED495	Sped. Student Teaching (6)	
	TOTAL	15 sem. hrs.

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

### **Comprehensive English/Special Education 7-12**

I. General Education Requirements	42 sem. hrs.
A. Skills	12 sem. hrs.
	ENGL101 College Writing Skills (3)
	ENGL102 Specialized College Writing and Research Skills (3)
	MATH104 Finite Math or higher math (3)
	SEDU183 Technology for Teaching and Learning (3)
B. Core	21 sem. hrs.
	Artistic Expression – THEA218 Intro to Theater (3)
	World Civilizations (3)

	American Civilizations (3)	
	Human Behavior – PSYC101	
	Introduction to Psychology (3)	
	Cultural Diversity and Social Pluralism	
	SEDU271 Multi-Culturalism/Amer	
	Schools (3)	
	Ethics (3)	
	Natural Science (3)	
C. Distribution		9 sem. hrs.
	Humanities and Fine Arts	
	ENGL201 American Lit Survey I (3)	
	Social and Behavioral Sciences (3)	
	Natural Sciences and Mathematics (3)	
II. Professional Education		51 sem. hrs.
	SPED210 Intro to Except. and Spec. Ed. (3)	
	SPED320 High Incidence Disabilities (3)	
	SPED340 Low Incidence Disabilities (3)	
	SPED335 Positive Behavior Support (3)	
	SPED420 Assess Students w/Disabilities (3)	
	SPED430 Collaboration & IEP Dev. (3)	
	SPED380 Transitions in the Sec. Class (3)	
	SPED461 Instructional Strategies I (3)	
	SPED462 Instructional Strategies II (3)	
	SPED440 Special Education Field (3)	
	SEDU465 Instructional Techniques for English (3)	
	SEDU476 Field Exp. Mid./Sec. Edu. (3)	
	SEDU491 Classroom Mgmt 7-12 Class (3)	
	SEDU495 Student Teaching (6)	
	SPED495 Student Teaching (6)	
III. Specialization in English		45 sem. hrs.
	Core Course	
	COMM107 Fundamentals of Speech (3)	
	ENGL202 American Lit. Survey II (3)	
	ENGL205 Multi-ethnic American Lit (3)	
	ENGL209 Foundations of Lit. Study (3)	
	ENGL211 Traditional Grammar (3)	
	ENGL489 Lit. Criticism: Theory (3)	
	ENGL499 Thesis Seminar in Lit. (3)	
	ENGL521 Hist: English Lang. (3)	
	ENGL525 Composition Theory (3)	
	ENGL545 Adolescent Literature (3)	
	Ancient/Classical/Renaissance	
		6 sem. hrs.
	ENGL260 Lit. of Ancient/Classical World Or	
	ENGL261 Medieval and Renaissance Lit (3)	
	ENGL315 Shakespeare I Or	
	ENGL319 Shakespeare II (3)	
	British Literature	6 sem. hrs.
	ENGL241 British Literature Survey I (3)	
	ENGL242 British Literature Survey II (3)	
	Topic/Author Course	3 sem. hrs.
	ENGL332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 411, 412, 413, 414, 415, 416 (3)	
	TOTAL	138 sem. hrs.

\*\*A student in secondary education must earn at least a grade of C in each course presented toward fulfillment of the minimum number of hours required for graduation and certification in the student's major academic field and student teaching, including required supporting courses.

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**BACHELOR OF SCIENCE IN EDUCATION –  
COMP ENGLISH/SPECIAL ED 7-12  
(Suggested Eight-Semester Sequence)**

**Freshman Year**

**First Semester**

ENGL101  
MATH104  
PSYC101  
COMM107  
THEA218

College Writing Skills (3)  
Finite Math or higher math (3)  
Introduction to Psychology (3)  
Fundamentals of Speech (3)  
Intro to Theatre (3)  
Freshman Common Hour

TOTAL 15 sem. hrs.

**Second Semester**

ENGL102  
  
SEDU183  
Core 3  
ENGL201  
Dist 3  
SPED210

Specialized College Writing and  
Research Skills (3)  
Tech. for Teaching and Learning (3)  
American Civilizations (any) (3)  
American Literature Survey (3)  
MATH- 100 level or higher (3)  
Intro to Exception and Spec. Ed. (3)

TOTAL 18 sem. hrs.

**Sophomore Year**

**Third Semester**

SEDU271  
Core 2  
ENGL202  
ENGL209  
ENGL  
SPED320  
SPED340

Multiculture in Amer Schools (3)  
World Civilizations (any) (3)  
American Literature Survey II (3)  
Foundations of Literature Study (3)  
Topic/Author Selection Elective (3)  
High Incidence Disabilities (3)  
Low Incidence Disabilities (3)

TOTAL 21 sem. hrs.

**Fourth Semester**

Core 6  
ENGL205  
ENGL211  
ENGL241  
SPED210  
ENGL260  
ENGL261

Ethics (3)  
Multi-Ethnic American Lit. (3)  
Traditional Grammar (3)  
British Literature Survey I (3)  
Intro to Except/ Spec Ed (3)  
Literature: Classical World (3) Or  
Medieval and Renaissance Literature

TOTAL 15 sem. hrs.

**Junior Year**

**Fifth Semester**

ENGL489  
ENGL315  
ENGL319  
ENGL525  
ENGL242  
Core 7  
SPED335  
SPED420

Literature Criticism: Theory (3)  
Shakespeare I (3) Or  
Shakespeare II  
Composition Theory (3)  
British Literature Survey II (3)  
Natural Science (3)  
Positive Behavior Support (3)  
Assessment of Students with  
Disabilities (3)

TOTAL 21 sem. hrs.

**Sixth Semester**

ENGL499  
ENGL521  
ENGL545  
Dist 2  
SPED430  
SPED380

Thesis Seminar in Literature (3)  
History of English Language (3)  
Adolescent Literature (3)  
Social and Behavioral Science (3)  
Collaboration & IEP Development (3)  
Transitions in the Secondary Class (3)

TOTAL 18 sem. hrs.

**Senior Year**

**Seventh Semester**

SPED461	Instructional Strategies I/Disab (3)	
SPED462	Instructional Strategies II/Disab (3)	
SEDU465	Instructional Techniques (3)	
SEDU476	Middle/Secondary Education Field Experience (3)	
SPED440	Special Education Field (3)	
	<b>TOTAL</b>	15 sem. hrs.

**Eighth Semester**

SEDU495	Student Teaching (6)	
SEDU491	Prof. Perf. Mid/Sec Classroom (3)	
SPED495	Special Ed Student Teaching (6)	
	<b>TOTAL</b>	15 sem. hrs.

**Bachelor of Science in Education Degree**

**Earth and Space Science/Special Education 7-12**

I.	General Education Requirements	43 sem. hrs.
A.	Skills	13 sem. hrs.
	ENGL101	College Writing Skills (3)
	ENGL102	Specialized College Writing and Research Skills (3)
	MATH107	Precalculus (4)
	SEDU183	Tech. for Teaching and Learning (3)
B.	Core	21 sem. hrs.
		Artistic Expression (3)
		World Civilizations (3)
		American Civilizations (3)
		Human Behavior – PSYC101 (3)
		Cultural Diversity and Social Pluralism- SEDU271 Multi-cult Amer Schools (3)
		Ethics (3)
		Natural Science – BIOL100 Intro to Biology (3)
C.	Distribution	9 sem. hrs.
		Humanities and Fine Arts – English Literature 300 level or above (3)
		Social and Behavioral Sciences – 300 level or above (3)
		Natural Sciences and Mathematics GEOS310 Intro to Oceanography (3)
II.	Professional Education	51 sem. hrs.
	SPED210	Intro to Except. and Spec. Ed. (3)
	SPED320	High Incidence Disabilities (3)
	SPED340	Low Incidence Disabilities (3)
	SPED335	Positive Behavior Support (3)
	SPED420	Assess Students w/Disabilities (3)
	SPED430	Collaboration & IEP Dev. (3)
	SPED380	Transitions in the Sec. Class (3)
	SPED461	Instructional Strategies I (3)
	SPED462	Instructional Strategies II (3)
	SPED440	Special Education Field (3)
	SEDU472	Instructional Techniques for Sciences (3)
	SEDU476	Middle/Secondary Field Experience (3)
	SEDU491	Classroom Management in 7-12 Classrooms (3)
	SEDU495	Student Teaching (6)
	SPED495	Student Teaching (6)

III.	Specialization in Earth and Space Science	29 sem. hrs.
	GEOS101	Dynamic Earth (3)
	GEOS112	Principles of Earth History (3)
	GEOS320	Meteorology I (3)
	GEOS375	Environmental Geology (3)
	PHYS271	Frontiers of Astronomy (3)
		Field Course (3)
		GEOS Electives (choose eleven credits) (11)
		GEOS311, 505, 510, 521, 523, 531, 541, 545
IV.	Required Supporting Courses	15-16 sem. hrs.
	CHEM240	Principles of Chemistry I (4)
	PHYS201	Physics I (4)
	PHYS202	Physics II (4) Or
	CHEM241	Principles of Chemistry II (4)
	MATH211	Analy Geometry & Calc I (3-4) Or
	MATH260	Elements of Statistics (3)
		<b>TOTAL</b>
		138 sem. hrs.

\*\* A student in secondary education must earn at least a grade of C in each course presented toward fulfillment of the minimum number of hours required for graduation and certification in the student’s major academic field and student teaching, including required supporting courses.

**BACHELOR OF SCIENCE IN EDUCATION –EARTH & SPACE SCIENCE/SPECIAL ED 7-12 (Suggested Eight-Semester Sequence)**

**Freshman year**

**First Semester**

ENGL101	College Writing Skills (3)
MATH107	Pre Calculus (4)
PSYC101	Introduction to Psychology (3)
BIOL100	Intro to Biology (3)
GEOS101	Dynamic Earth (3)
	Freshman Common Hour
	<b>TOTAL</b>
	16 sem. hrs.

**Second Semester**

ENGL102	Specialized College Writing and Research Skills (3)
SEDU183	Tech. for Teaching and Learning (3)
GEOS112	Principles of Earth History (3)
PHYS271	Frontiers of Astronomy (3)
MATH211	Analytical Geometry and Calculus I (3 or 4) Or
	Elements of Statistics
MATH260	Intro. To Exception and Spec. Ed. (3)
SPED210	
	<b>TOTAL</b>
	18-19 sem. hrs.

**Sophomore Year**

**Third Semester**

CHEM240	Principles of Chemistry I (4)
PHYS201	Physics I (4)
Core 2	World Civilizations (any) (3)
SEDU271	MultiCult Amer Schools (Core 5) (3)
SPED320	High Incidence Disabilities (3)
SPED340	Low Incidence Disabilities (3)
	<b>TOTAL</b>
	20 sem. hrs.

**Fourth Semester**

Core 1	Artistic Expression (any) (3)	
CHEM241	Principles of Chemistry II (4) Or	
PHYS202	Physics II	
GEOS310	Introduction to Oceanography (3)	
Core 6	Ethics (any) (3)	
Core 3	American Civilizations (3)	
GEOS	Electives (3)	
	<b>TOTAL</b>	19 sem. hrs.

**Junior Year****Fifth Semester**

GEOS375	Environmental Geology (3)	
GEOS320	Meteorology I (3)	
	Field Course (3)	
Dist 1	English Lit.- 300 level or above (3)	
SPED335	Positive Behavior Support (3)	
SPED420	Assessment of Students w/ Disabilities (3)	
	<b>TOTAL</b>	18 sem. hrs.

**Sixth Semester**

GEOS	Electives (8)	
Dist 2	Social & Behavioral Sciences-300 level or above (3)	
SPED430	Collaboration & IEP Dev. (3)	
SPED380	Transitions in the Sec. Class (3)	
	<b>TOTAL</b>	17 sem. hrs.

**Senior Year****Seventh Semester**

SPED461	Instructional Strategies I/Disab (3)	
SPED462	Instructional Strategies II/Disab (3)	
SEDU472	Instructional Techniques (3)	
SEDU476	Field Exp. Mid./Sec. Edu. (3)	
SPED440	Special Education Field (3)	
	<b>TOTAL</b>	15 sem. hrs.

**Eighth Semester**

SEDU491	Classroom Management in 7-12 Classrooms (3)	
SEDU495	Student Teaching (6)	
SPED495	Student Teaching (6)	
	<b>TOTAL</b>	15 sem. hrs.

**Bachelor of Science in Education Degree****Mathematics/Special Education 7-12**

I. General Education Requirements		44 sem. hrs.
A. Skills		13 sem. hrs.
ENGL101	College Writing Skills (3)	
ENGL102	Specialized College Writing and Research Skills (3)	
MATH107	Pre-Calculus (4)	
SEDU183	Tech for Teaching and Learning (3)	
B. Core		21 sem. hrs.
	Artistic Expression (3)	
	World Civilizations (3)	
	American Civilizations (3)	
	Human Behavior	
	PSYC101 (3)	
	Cultural Diversity and Social Pluralism – SEDU271 Multi-cul Am Schools (3)	
	Ethics (3)	
	Natural Science (3)	
C. Distribution		10 sem. hrs.
	Humanities and Fine Arts	
	Social and Behavioral Sciences (3)	
	Natural Sciences and Mathematics	
	MATH211 Analy Geom & Calc I (4)	

II. Professional Education		51 sem. hrs.
SPED210	Intro to Except. and Spec. Ed. (3)	
SPED320	High Incidence Disabilities (3)	
SPED340	Low Incidence Disabilities (3)	
SPED335	Positive Behavior Support (3)	
SPED420	Assess Students w/Disabilities (3)	
SPED430	Collaboration & IEP Dev. (3)	
SPED380	Transitions in the Sec. Class (3)	
SPED461	Instructional Strategies I (3)	
SPED462	Instructional Strategies II (3)	
SPED440	Special Education Field (3)	
SEDU471	Instructional Techniques for Mathematics (3)	
SEDU476	Middle/Secondary Field Experience (3)	
SEDU491	Classroom Management in 7-12 Classrooms (3)	
SEDU495	Student Teaching (6)	
SPED495	Student Teaching (6)	
III. Specialization in Mathematics		42 sem. hrs.
C. Required Courses		39 sem. hrs.
MATH212	Analytic Geometry & Calculus II (4)	
MATH311	Analytic Geometry and Calculus III (4)	
MATH270	Discrete Mathematics I (3)	
MATH275	Linear Algebra (3)	
MATH350	Mathematical Probability & Statistics (3)	
MATH353	College Geometry (3)	
MATH370	Discrete Mathematics II (3)	
MATH372	Hist. Roots of Math. (3)	
MATH403	Math for Sec. Sch. Tch. (3)	
MATH404	Comp./Calc. in SEMA (3)	
MATH411	Intro to Analysis (3)	
MATH421	Abstract Algebra (3)	
MATH480	Mathematics Seminar (1)	
D. Related Course		3 sem. hrs.
CSCI130	Principles of Programming (3)	
	<b>TOTAL</b>	137 sem. hrs.

**BACHELOR OF SCIENCE IN EDUCATION –  
MATHEMATICS/SPECIAL ED 7-12  
(Suggested Eight-Semester Sequence)****Freshman Year****First Semester**

ENGL101	College Writing Skills (3)	
MATH107	Pre-Calculus (4)	
PSYC101	Introduction to Psychology (3)	
CSCI130	Principles of Programming (3)	
Core 1	Artistic Expression (any) (3)	
	Freshman Common Hour	
	<b>TOTAL</b>	6 sem. hrs.

**Second Semester**

ENGL102	Specialized College and Writing Skills (3)	
MATH211	Analytic Geometry and Calculus I (4)	
SEDU183	Tech. for Teaching and Learning (3)	
Core 2	World Civilizations (any) (3)	
Core 6	Ethics (any) (3)	
SPED210	Intro to Exception and Spec. Ed. (3)	
	<b>TOTAL</b>	19 sem. hrs.

**Sophomore Year****Third Semester**

MATH212	Analytic Geometry and Calculus II (4)	
MATH270	Discrete Mathematics I (4)	
SEDU271	Multicultural Amer Schools (Core 5) (3)	
Core 3	American Civilizations (any) (3)	
SPED320	High Incidence Disabilities (3)	
SPED340	Low Incidence Disabilities (3)	
	<b>TOTAL</b>	20 sem. hrs.

**Fourth Semester**

MATH275	Linear Algebra I (3)	
MATH370	Discrete Mathematics II (3)	
MATH311	Analytic Geometry and Calculus III (3)	
Core 7	Natural Science (any) (3)	
MATH480	Mathematics Seminar (1)	
	<b>TOTAL</b>	13 sem. hrs.

**Junior Year**

**Fifth Semester**

MATH353	College Geometry (3)	
MATH372	Historical Root of Math (3)**	
MATH350	Mathematical Prob/Statistics (3)	
MATH403	Math for Sec Sch Tch. (3)**	
Dist 1	Humanities and Fine Arts (any) (3)	
SPED335	Positive Behavior Support (3)	
SPED420	Assessment of Students w/Disabilities (3)	
	<b>TOTAL</b>	21 sem. hrs.

**Sixth Semester**

MATH404	Comp/Calc. in SEMA (3)**	
MATH411	Math Analysis (3)	
MATH421	Abstract Algebra (3)	
Dist 2	Social and Behavioral Science (any) (3)	
SPED430	Collaboration & IEP Dev. (3)	
SPED380	Transitions in the Secondary Class (3)	
	<b>TOTAL</b>	18 sem. hrs.

**Senior Year**

**Seventh Semester**

SPED461	Instructional Strategies I/Disab (3)	
SPED462	Instructional Strategies II/Disab (3)	
SEDU471	Instructional Techniques (3)	
SEDU476	Mid/Sec Ed Field Experience (3)	
SPED440	Special Education Field (3)	
	<b>TOTAL</b>	15 sem. hrs.

**Eighth Semester**

SEDU495	Student Teaching (6)	
SEDU491	Classroom Management in 7-12 Classrooms (3)	
SPED495	Special Ed Student Teaching (6)	
	<b>TOTAL</b>	15 sem. hrs.

**Bachelor of Science in Education Degree**

**Physics/Special Education 7-12**

I. General Education Requirements	45 sem. hrs.
A. Skills	13 sem. hrs.
ENGL101	College Writing Skills (3)
ENGL102	Specialized College Writing and Research Skills (3)
MATH107	Pre-Calculus (4)
SEDU183	Tech for Teaching and Learning (3)
B. Core	22 sem. hrs.
Artistic Expression (3)	
World Civilizations (3)	
American Civilizations (3)	
Human Behavior – PSYC101 (3)	
Cultural Diversity and Social Pluralism – SEDU271 Multicult Amer Schools(3)	
Ethics - GEOG145 Environmental Issues (3)	
Natural Science – CHEM240 Principles of Chem I (4)	

C. Distribution	10 sem. hrs.	
Humanities and Fine Arts (3)		
Social and Behavioral Sciences (3)		
Natural Sciences and Mathematics		
MATH211 Analyt Geom & Calc I (4)		
II. Professional Education	51 sem. hrs.	
SPED210	Intro to Except. and Spec. Ed. (3)	
SPED320	High Incidence Disabilities (3)	
SPED340	Low Incidence Disabilities (3)	
SPED335	Positive Behavior Support (3)	
SPED420	Assess Students w/Disabilities (3)	
SPED430	Collaboration & IEP Dev. (3)	
SPED380	Transitions in the Sec. Class (3)	
SPED461	Instructional Strategies I (3)	
SPED462	Instructional Strategies II (3)	
SPED440	Special Education Field (3)	
SEDU472	Instructional Techniques for Sciences (3)	
SEDU476	Mid./Sec. Ed. Field Experience (3)	
SEDU491	Classroom Management in 7-12 Classrooms (3)	
SEDU495	Student Teaching (6)	
SPED495	Student Teaching (6)	
III. Specialization in Physics	31 sem. hrs.	
B. Required Courses	(22 sem. hrs.)	
PHYS150	Physics Orientation (3)	
PHYS312	Technical Electronics II (4)	
PHYS320	University Physics I (4)	
PHYS321	University Physics II (4)	
PHYS322	Physical Measurements I (1)	
PHYS323	Physical Measurements II (1)	
PHYS325	Intro. to Modern Physics (3)	
PHYS305/404/405	Advanced Lab* (2)	
* Select one course from the above		
B. Physics Electives	(9 sem. hrs.)	
Take 3 of the following 5:		
PHYS420	Mechanics I (3)	
PHYS430	Electricity and Mag. I (3)	
PHYS441	Thermal Physics (3)	
PHYS453	Quantum Physics (3)	
PHYS449	Math. Methods in Phys. (3)	
IV. Required Supporting Courses	14 sem. hrs.	
BIOL100	Intro to Biology (3)	
CHEM241	Principles of Chemistry II (4)	
MATH212	Analyt Geom & Calc II (4)	
MATH317	Intro. to Diff. Equations (3)	
	<b>TOTAL</b>	141 sem. hrs.

\*\* A student in secondary education must earn at least a grade of C in each course presented toward fulfillment of the minimum number of hours required for graduation and certification in the student’s major academic field and student teaching, including required supporting courses.

**BACHELOR OF SCIENCE IN EDUCATION – PHYSICS/SPECIAL ED 7-12 (Suggested Eight-Semester Sequence)**

**Freshman Year**

**First Semester**

ENGL101	College Writing Skills (3)	
MATH107	Pre-Calculus (4)	
PSYC101	Introduction to Psychology (3)	
PHYS150	Physics Orientation (3)	
Core 1	Artistic Expression (Literature) (3)	
	Freshman Common Hour	
	<b>TOTAL</b>	16 sem. hrs.

**Second Semester**

ENGL102	Specialized College Writing and Research Skills (3)
MATH211	Analytic Geom. and Calculus I (4)
SEDU183	Tech. for Teaching and Learning (3)
BIOL100	Intro to Biology (3)
GEOG145	Environmental Issues (3)
SPED210	Intro to Exception and Spec. Ed. (3)
PHYS322	Physical Measurements I (1)
	TOTAL 20 sem. hrs.

**Sophomore Year****Third Semester**

MATH212	Analytic Geometry and Calculus II (4)
PHYS320	University Physics I (4)
SEDU271	Multicult in Amer Schools (3)
CHEM240	Principles of Chemistry I (4)
SPED320	High Incidence Disabilities (3)
SPED340	Low Incidence Disabilities (3)
	TOTAL 21 sem. hrs.

**Fourth Semester**

Core 2	World Civilizations (any) (3)
Core 3	American Civilizations (any) (3)
CHEM241	Principles of Chemistry II (4)
PHYS321	University Physics II (4)
PHYS323	Physical Measurements II (1)
	TOTAL 15 sem. hrs.

**Junior Year****Fifth Semester**

PHYS325	Intro. to Modern Physics (3)
MATH317	Intro. to Diff. Equations (3)
PHYS312	Technical Electronics II (4)
Dist 1	Humanities and Fine Arts (any) (3)
SPED335	Positive Behavior Support (3)
SPED420	Assessment of Students with Disabilities (3)
PHYS305/404/405	Advanced Lab (2)
	TOTAL 21 sem. hrs.

**Sixth Semester**

Choose three from the following five physics electives (9):	
PHYS420, PHYS430, PHYS441, PHYS453, or PHYS449	
Dist 2	Social and Behavioral Sciences (any) (3)
SPED430	Collaboration & IEP Development (3)
SPED380	Transitions in the Secondary Class (3)
	TOTAL 18 sem. hrs.

**Senior Year****Seventh Semester**

SPED461	Instructional Strategies I/Disab (3)
SPED462	Instructional Strategies II/Disab (3)
SEDU472	Instructional Techniques (3)
SEDU476	Field Exp. Mid./Sec. Edu. (3)
SPED440	Special Education Field (3)
	TOTAL 15 sem. hrs.

**Eighth Semester**

SEDU495	Student Teaching (6)
SEDU491	Classroom Management in 7-12 Classrooms (3)
SPED495	Student Teaching (6)
	TOTAL 15 sem. hrs.

**Bachelor of Science in Education Degree****Social Studies/Special Education 7-12**

I.	General Education Requirements	42 sem. hrs.
A.	Skills	12 sem. hrs.
	ENGL101	College Writing Skills (3)
	ENGL102	Specialized College Writing and Research Skills (3)
	MATH104	Finite Math or higher level (3)
	SEDU183	Tech for Teaching and Learning (3)
B.	Core	21 sem. hrs.
		Artistic Expression (3)
		World Civilizations – HIST101 (3)
		American Civilizations – HIST261 (3)
		Human Behavior – PSYC101 (3)
		Cultural Diversity and Social Pluralism SEDU271(3)
		Ethics (3)
		Natural Science (3)
C.	Distribution	9 sem. hrs.
		Humanities and Fine Arts – English Lit 300 level or above (3)
		Social and Behavioral Sciences ECON220 (3)
		Natural Sciences and Mathematics- Must be a MATH course (3)
II.	Professional Education	51 sem. hrs.
	SPED210	Intro Except and Spec. Ed. (3)
	SPED320	High Incidence Disabilities (3)
	SPED340	Low Incidence Disabilities (3)
	SPED335	Positive Behavior Support (3)
	SPED420	Assess Students w/Disabilities (3)
	SPED430	Collaboration & IEP Dev. (3)
	SPED380	Transitions in the Sec. Class (3)
	SPED461	Instructional Strategies I (3)
	SPED462	Instructional Strategies II (3)
	SPED440	Special Education Field (3)
	SEDU473	Instructional Techniques for Social Studies (3)
	SEDU475	Sec. Ed. Field Experience (3)
	SEDU491	Prof. Perf. Mid/Sec Classroom (3)
	SEDU495	Student Teaching (6)
	SPED495	Student Teaching (6)
III.	Specialization in Social Studies	45 sem. hrs.
A.	Required Courses (39)	
	ANTH180	Introduction to Anthropology (3)
	ECON225	Principles of Macroeconomics (3)
	GEOG101	World Geography (3) Or
	GEOG130	Cultural Geography (3)
	GEOG	Course at the 300 level or above (3)
	HIST102	World Civilization II (3)
	HIST100	Study of History (3) Or
	SOC250	Introduction to Sociological Research Methods (3)
	HIST262	U.S. History II (3)
	HIST380	Pennsylvania Hist (3)
	POLI201	American Government (3)
	POLI315	American State and Local Government (3)
	POLI102	Introduction to Comparative Politics (3)
	PSYC390	Social Psychology (3) Or
	SOC326	Society and Indiv. (3)
	SOC100	Principles of Sociology (3)

B. History Electives- choose 1 U.S. and 1 World (6) U.S.: HIST315, 336, 361, 362, 363, 364, 366, 370, 373, 375, 376, 377, 378, 383, 405, 415 World: HIST 303, 305, 306, 309, 310, 312, 314, 316, 318, 319, 323, 324, 330, 331, 332, 339, 341, 346, 347, 353, 355, 357, 358	6 sem. hrs.
<b>TOTAL</b>	<b>138 sem. hrs.</b>

\*\*A student in secondary education must earn at least a grade of C in each course presented toward fulfillment of the minimum number of hours required for graduation and certification in the student's major academic field and student teaching, including required supporting courses.

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**BACHELOR OF SCIENCE IN EDUCATION –  
SOCIAL STUDIES/SPECIAL ED 7-12  
(Suggested Eight-Semester Sequence)**

**Freshman Year**

**First Semester**

ENGL101	College Writing Skills (3)	
HIST101	World Civilization I (3)	
MATH104	Finite Math or higher level (3)	
PSYC101	Introduction to Psychology (3)	
HIST100	Study of History (3) Or	
SOC250	Introduction to Sociological Research Methods	
<b>TOTAL</b>		<b>15 sem. hrs.</b>

**Second Semester**

HIST261	History of U.S. I (3)	
ENGL102	Specialized College Writing and Research Skills (3)	
SOC100	Principles of Sociology (3)	
ANTH180	Introduction to Anthropology (3)	
Dist 1	English Lit 300 level or above (3)	
SPED210	Intro to Exception and Spec. Ed. (3)	
<b>TOTAL</b>		<b>18 sem. hrs.</b>

**Sophomore Year**

**Third Semester**

ECON220	Principles of Microeconomics (3)	
HIST102	World Civilizations II (3)	
SEDU271	Multi-cult Amer Schools (3)	
Dist 3	MATH at the 100 level or higher (3)	
SPED320	High Incidence Disabilities (3)	
SPED340	Low Incidence Disabilities (3)	
POLI201	American Government (3)	
<b>TOTAL</b>		<b>21 sem. hrs.</b>

**Fourth Semester**

ECON225	Principles of Macroeconomics (3)	
HIST262	History of U.S. II (3)	
SEDU183	Tech. for Teaching and Learning (3)	
Core 1	Artistic Expression (any) (3)	
Core 6	Ethics (any) (3)	
Core 7	Natural Science (any) (3)	
<b>TOTAL</b>		<b>18 sem. hrs.</b>

**Junior Year**

**Fifth Semester**

GEOG101	World Geography (3) Or	
GEOG130	Cultural Geography	
HIST380	Pennsylvania History (3)	
POLI102	Intro to Comparative Govt. (3)	
SPED335	Positive Behavior Support (3)	
SPED420	Assessment of Students with Disabilities (3)	
History Elective	Choose one U.S. History: (3)	
<b>TOTAL</b>		<b>18 sem. hrs.</b>

**Sixth Semester**

PSYC390	Social Psychology (3) Or	
SOC326	Society and the Individual (3)	
POLI315	American State and Local Government (3)	
HIST Elective	Choose World History (3)	
GEOG Elective	300 level or above (3)	
SPED430	Collaboration & IEP Dev. (3)	
SPED380	Transitions in the Secondary Class (3)	
<b>TOTAL</b>		<b>18 sem. hrs.</b>

**Senior Year**

**Seventh Semester**

SPED461	Instructional Strategies I/Disab (3)	
SPED462	Instructional Strategies II/Disab (3)	
SEDU473	Instructional Techniques/SS (3)	
SEDU475	Secondary Ed Field Experience (3)	
SPED 440	Special Education Field (3)	
<b>TOTAL</b>		<b>15 sem. hrs.</b>

**Eighth Semester**

SEDU491	Classroom Management in 7-12 Classrooms (3)	
SEDU495	Student Teaching (6)	
SPED495	Student Teaching (6)	
<b>TOTAL</b>		<b>15 sem. hrs.</b>

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**Bachelor of Science in Art Education Degree**

Please refer to the Art Department section for information regarding the Art Education program.

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**Health and Physical Education  
Department**

FACULTY: Kenneth R. Felker, Michael Haesy, Laura M. Miller, Shawn S. Reagan, James Roberts, Ruth Stauffer

**Bachelor of Science in Health  
and Physical Education**

The Health and Physical Education Department offers undergraduate work leading to the Bachelor of Science degree in Health and Physical Education with a concentration in teacher certification, sport and recreation administration, health promotion, or human performance. The degree requires successful completion of a minimum of 120 hours of approved coursework consisting of a 42 hour general education program, a core of professional and concentration courses for the various concentration options. A grade of "C" or better is required for all professional core courses and concentration courses.

**General Education**

**42-43 sem. hrs.**

Each student is required to complete a 42 hour program. This program has two major components. Core has seven divisions – Artistic Expression, World Civilization, American Civilization, Human Behavior, Cultural Diversity/Social Pluralism, Science and Technology, and Ethics. Distribution has three divisions – Humanities and Fine Arts, Social/Behavioral Sciences, and Science and Mathematics. Each student works with an academic advisor to select a series of general education courses that will complement the chosen program of study.



A. Skills	12 sem. hrs.
ENGL101	College Writing Skills (3)
ENGL102	Specialized College Writing and Research Skills (3)
MATH104	Finite Math (3)
CSCI104	Essential Computing I (3) or Discipline Specific Computer Competency course
B. Core ***	21-22 sem. hrs.
	Artistic Expression (3)
	World Civilization (3)
	American Civilization (3)
	Human Behavior (3) PSYC101
	Cultural Diversity/Social Pluralism (3)
	Science and Technology (3)
	Ethics (3)
	Natural Science (3) PHYS101 or PHYS201
C. Distribution	9 sem. hrs.
	Humanities and Fine Arts (3)
	Social/Behavioral Sciences (3)
	Science and Mathematics (3)
	BIOL101 (3)**

**\*\* BIOL101 recommended as it is a prerequisite for Human Performance majors.**

**\*\*\*A grade of "C" or better is required for all required Core Courses and required Concentration Courses**

### Health Promotion

The health promotion track prepares students to compete for the increasing number of employment opportunities in the areas of health promotion and disease prevention. This inter-disciplinary degree combines coursework from the areas of health education, exercise science, communication, philosophy, and psychology, as well as electives from areas of special interest. A full semester internship serves as the capstone course for the health promotion track providing students with valuable experience in settings such as state and local health departments, corporate wellness programs, public health agencies, hospitals and HMOs, and health clubs. After completion of the track, graduates are eligible to take the National Health Education Specialist (CHES) examination from the National Commission for Health Education Credentialing (NCHEC).

Graduates of the Bachelor of Science in Health and Physical Education with a concentration in Health Promotion will be able to:

- Demonstrate the knowledge, skills and dispositions needed to plan, implement, and evaluate health promotion programs;
- Possess professional oral and written communication skills;
- Possess proficiency in technology skills related to health promotion;
- Show personal, professional, social and ethical behaviors associated with professions in health education and health promotion;
- Identify the importance of continuing education opportunities.

### REQUIRED CORE COURSES – HEALTH PROMOTION

(24 SH)

HPE265	Health Emergencies (3)
HPE300	Applied Anatomy & Physiology in HPE (3)*
HPE311	Planning & Evaluation in HPE (3)
HPE406	Worksite Field Experience (3)
HPE496	Internship in HPE (12)

\*HPE Department requires that BIOL101 be taken before this course. (Satisfies Dist. 3)

### CONCENTRATION COURSES – HEALTH PROMOTION

(36 SH)

HPE132	Health/Fitness Promotion (3)
HPE133	Personal Health (3)
HPE135	Drugs/Alcohol/Tobacco (3)
HPE222	Principles of Fitness Instruction (3)
HPE245	Human Sexuality (3)
HPE320	Consumer Health (3)
HPE355	Community Health (3)
HPE364	Health Methodology (3)
HPE384	Technology Integration HPE (3)
HPE400	Critical Issues in Health (3)
JOUR360	Writing for Public Relations (3)

#### One of the following:

NUHL500	End of Life Care (3) or
PHIL265	Death and Dying (3) or
PSYC319	Psychology of Aging (3)

A grade of "C" or better is required for all required Core Courses and required Concentration Courses

### Human Performance

The human performance track is designed for those interested in the exercise sciences, human performance, physical therapy, and/or personal training. Coursework prepares students through theory, practical application, and laboratory experiences to have the skills necessary for developing exercise programs, and health and wellness program design for a variety of populations including healthy, athletes, obese, etc. Professional career opportunities include: corporate fitness, physical therapy school, cardiac rehabilitation, strength and conditioning coach, personal training, and research assistant.

After completion of the program, graduates will be prepared for several National Certifications in the health and fitness industry including personal training and group led exercise (aerobics). Students satisfactorily completing the required coursework will be granted a Bachelor of Science in Health and Physical Education with a concentration in Human Performance.

Graduates of the Bachelor of Science in Health and Physical Education with a concentration in Human Performance will be able to:

- Demonstrate the knowledge, skills and dispositions needed to plan, implement, and evaluate exercise prescription and other programs related to exercise science and human performance;
- Possess professional oral and written communication skills;
- Possess proficiency in the use of exercise science laboratory technology;
- Show personal, professional, social and ethical behaviors associated with professions in exercise science and human performance;
- Identify the importance of continuing education opportunities.

### REQUIRED CORE COURSES – HUMAN PERFORMANCE

(24 SH)

HPE265	Health Emergencies (3)
HPE311	Planning & Evaluation in HPE (3)
HPE384	Technology Integration HPE (3)
HPE406	Worksite Field Experience (3)
HPE496	Internship in HPE (12)

**CONCENTRATION COURSES – HUMAN PERFORMANCE****(36 SH)**

HPE132	Health and Fitness Promotion in the Workplace (3)
HPE222	Principles of Fitness Instruction (3)
HPE270	Sports Nutrition (3)
HPE300	Applied Anatomy & Physiology in HPE (3)*
HPE301	Applied Human Anatomy & Physiology II in HPE (3)
HPE314	Kinesiology (3)
HPE350	Exercise Physiology I (3)
HPE360	Adapted Physical Education (3)
HPE402	Legal Aspects of Spt/Rec (3)
HPE450	Exercise Physiology II (3)
HPE470	Research in Human Performance (3)

**One of the following:**

HPE310	Care and Prevention of Athletic Injuries (3)
HPE400	Critical Issues in Health (3)
HPE410	Faculty Mgmt/Oper (3)

\* HPE Department requires that BIOL101 be taken before this course. (Satisfies Dist. 3)

\*\* Fulfills Distribution 3 – Science & Math

\*\*\* Fulfills Core 7 – Natural Science

\*\*\*\* Fulfills Core 4 – Human Behavior

**BIOL101 recommended as it is a prerequisite for Human Performance majors.**

A grade of “C” or better is required for all required Core Courses and required Concentration Courses

**Sport and Recreation Administration**

This sport and recreation administration track is designed to provide students with the necessary skills to become successful managers within sport- and/or recreation-related agencies. The track will focus on such disciplines as leadership theory, personnel management, law and liability, program implementation, and facility management/design. Upon satisfactory completion of the required coursework, students will be granted a Bachelor of Science Degree in Health and Physical Education with a concentration in Sport and Recreation Administration. This degree will qualify students for employment in such area as municipal recreation, collegiate recreation, corporate recreation, private recreation, non-profit recreation, interscholastic and intercollegiate athletics, facility management, minor and major professional sport teams, sport clubs and the fitness industry.

Graduates of the Bachelor of Science in Health and Physical Education with a concentration in Sport and Recreation Administration will be able to:

- Demonstrate the knowledge, skills and dispositions needed to plan, implement, and evaluate sport and recreation programs;
- Possess professional oral and written communication skills;
- Possess proficiency in technology skills related to sport and recreation administration;
- Show personal, professional, social and ethical behaviors associated with professions in sport and recreation administration;
- Identify the importance of continuing education opportunities.

**REQUIRED CORE COURSES – SPORT AND RECREATION****ADMINISTRATION****(24 SH)**

HPE265	Health Emergencies (3)
HPE312	Org. Admin. Rec. Sport Prog. (3)
HPE384	Technology Integration HPE (3)
HPE406	Worksite Field Experience (3)
HPE496	Internship in HPE (12)

**CONCENTRATION COURSES – SPORT AND RECREATION****ADMINISTRATION****(36 SH)**

HPE132	Health/Fitness Promotion (3)
HPE145	Intro to Rec/Leisure (3)
HPE252	Leadership in Rec Mgmt (3)
HPE300	Applied Anatomy & Physiology in HPE (3)*
HPE315	Management Of Sport & Physical Education Programs (3)
HPE323	Soc/Cult/for Sport (3)
HPE324	Outdoor Recreation Programs (3)
HPE402	Legal Aspects of Spr/Rec (3)
HPE410	Facility Mngmt/Oper (3)
HPE424	Contemp Issues in Rec (3)
COMM430	Organizational Comm (3)

**One of the following:**

JOUR324	Sports Writing (3)
PR360	Writing for Public Relations (3)

\* HPE Department requires that BIOL101 be taken before this course. (Satisfies Dist. 3)

A grade of “C” or better is required for all required Core Courses and required Concentration Courses

**Teacher Certification**

The teacher certification track enables students to take the certification examination to teach health and physical education in grades K-12. The program consists of a low student-faculty ratio to foster student-faculty relationships, individual assistance, and personalized learning. In addition to this personalized attention, students will experience numerous opportunities to plan and teach lessons, improve motor skills, and to gather valuable teaching materials. Students will experience realistic teaching situations during the junior and senior years prior to placement in the public schools as part of regular coursework.

Graduates of the Bachelor of Science in Health and Physical Education with a concentration in Teacher Certification will be able to:

- Demonstrate proficiency in knowledge, pedagogy, dispositions, planning/preparation and evaluation related to teaching health and physical education;
- Possess professional oral and written communication skills;
- Possess proficiency in technology skills related to health and physical education;
- Show personal, professional, social and ethical behaviors associated with teaching health and physical education;
- Identify the importance of continuing education opportunities.

**PROFESSIONAL CORE COURSES – TEACHER****CERTIFICATION****(21 SH)**

HPE265	Health Emergencies (3)
HPE311	Planning & Evaluation in HPE (3)
HPE384	Technology Integration HPE (3)
HPE405	Worksite Field Experience (3)
HPE495	Internship in HPE (12)

\*Fulfills General Education Skills – CSCI 104 Essential Comp

**CONCENTRATION COURSES – TEACHER****CERTIFICATION****(60 SH)**

HPE133	Personal and Community Health I (3)
HPE135	Drugs/Alcohol/Tobacco (3)
HPE215	Pedagogy of Activities and Gymnastics (3)
HPE220	Pedagogy for Team Games I (3)
HPE225	Pedagogy Team Games II (3)
HPE222	Principles of Fitness Instruction (3)

HPE230	Pedagogy of Life Activities I (3)
HPE245	Human Sexuality (3)
HPE278	Physical Ed in the Elementary School (3)
HPE300	Applied Human Anatomy & Physiology I in HPE (3)*
HPE301	Applied Human Anatomy & Physiology II in HPE (3)
HPE306	Classroom Management in HPE (3)
HPE314	Kinesiology (3)
HPE315	Management of Sports and Physical Ed. Programs (3)
HPE350	Exercise Physiology I (3)
HPE360	Adapted Physical Education (3)
HPE364	Health Methodology (3)
HPE400	Critical Issues in Health (3)
SPED210	Introduction to Exceptionalities and Special Education (3)
SPED370	Adaptations and Accommodations in Inclusive Settings (3)
PSYC101	Introduction to Psychology (3)**
SEDU271	Educ in Multicultural Society (3)***
BIOL101	Human Biology (3)****

\* HPE Department requires that BIOL101 be taken before this course. (Satisfies Dist. 3)

\*\* Fulfills Core 4 – Human Behavior

\*\*\*Fulfills Core 5 – Cultural Diversity and Social Pluralism

\*\*\*\*Fulfills Distribution 3 – Science and Math

**REQUIRED ADDITIONAL COURSES – TEACHER CERTIFICATION** (3 SH)

MATH105	College Algebra or higher (3)
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A grade of “C” or better is required for all required Core Courses and required Concentration Courses

**BACHELOR OF SCIENCE IN HEALTH AND PHYSICAL EDUCATION – HEALTH PROMOTION**  
(Suggested Eight-Semester Sequence)

**First Semester**

ENGL101	College Writing Skills (3)
HPE135	Alcohol, Tobacco, and Other Drug Education (3)
HPE265	Health Emergencies (3)
MATH104	Finite Mathematics (3) or higher
PSYC101	Introduction to Psychology (Core 4) (3)
	TOTAL 15 sem. hrs.

**Second Semester**

HPE133	Personal Health (3)
CSCI104	Essential Computing (3) or Discipline-specific Computer Competency Course
ENGL102	Specialized College Writing and Research Skills (3)
COMM107	Fund. Speech (Distribution) (3)
	Core 2 (3)
	TOTAL 15 sem. hrs.

**Third Semester**

HPE132	Health/Fitness Promotion in the Workplace (3)
PHIL265*	Death and Dying (3) *or PSYC 310 (3) or NUHL 500 (3)
BIOL101	Human Biology (3)
	Core 1 (3)
	Free Elective (3)
	TOTAL 15 sem. hrs.

**Fourth Semester**

HPE222	Principles of Fitness Instruction (3)
HPE245	Human Sexuality (3)
HPE300	Applied Anatomy and Physiology in HPE (3)
JOUR360	Writing for Public Relations (3)
	Core 5 (3)
	TOTAL 15 sem. hrs.

**Fifth Semester**

HPE311	Planning and Evaluation in HPE (3)
HPE355	Community Health (3)
	Distribution 2 (3)
	Core 7 (3)
	Free Elective (3)
	TOTAL 15 sem. hrs.

**Sixth Semester**

HPE320	Consumer Health (3)
HPE364	Health Methodology (3)
HPE384	Technology Integration in HPE (3)
	Core 6 (3)
	Free Electives (6)
	TOTAL 18 sem. hrs.

**Seventh Semester**

HPE400	Critical Issues in Health (3)
HPE406	Field Experience (3)
	Core 3 (3)
	Free Electives (6)
	TOTAL 15 sem. hrs.

**Eighth Semester**

HPE496	Internship in HPE (12)
	TOTAL 12 sem. hrs.

**BACHELOR OF SCIENCE IN HEALTH AND PHYSICAL EDUCATION – HUMAN PERFORMANCE**  
(Suggested Eight-Semester Sequence)

**First Semester**

ENGL101	College Writing Skills (3)
HPE132	Health/Fitness Promo (3)
HPE265	Health Emergencies (3)
MATH104	Finite Mathematics (3) or higher
PSYC101	Introduction to Psychology (Core 4) (3)
	TOTAL 15 sem. hrs.

**Second Semester**

ENGL102	Specialized College Writing and Research Skills (3)
HPE222	Principles of Fitness Instruction (3)
BIOL101	Human Biology (Free Elective) (3)
MATH260	Elementary Statistics (3)
	(Distribution 3) (3)
	Core 1 (3)
	TOTAL 15 sem. hrs.

**Third Semester**

HPE300	Applied Anatomy and Physiology in HPE (3)
PHYS101*	Physical Science (Core 7) (3) *or PHYS 102 (4)
HPE270	Sports Nutrition (3)
	Core 6 (3)
	Core 2 (3)
	TOTAL 15 or 16 sem. hrs.

<b>Fourth Semester</b>		
CSCI104	Essential Computing I (3) or Discipline-specific Computer Competency Course	
HPE301	Applied Human Anatomy II (3)	
HPE400*	Critical Issues in Health (3) *or HPE310 (3) or HPE410 (3)	
	Core 3 (3)	
	Core 5 (3)	
	TOTAL	15 sem. hrs.
<b>Fifth Semester</b>		
HPE311	Planning and Evaluation in HPE (3)	
HPE314	Kinesiology (3)	
HPE350	Exercise Physiology I (3)	
	Free Electives (6)	
	TOTAL	15 sem. hrs.
<b>Sixth Semester</b>		
HPE360	Adapted Physical Education (3)	
HPE384	Technology Integration in HPE (3)	
HPE402	Legal Aspects of Sports and Recreation (3)	
	Distribution 1 (3)	
	Free Electives (6)	
	TOTAL	18 sem. hrs.
<b>Seventh Semester</b>		
HPE406	Worksite Field Experience (3)	
HPE450	Exercise Physiology II (3)	
HPE470	Research in Human Performance (3)	
	Distribution 2 (3)	
	Free Elective (3)	
	TOTAL	15 sem. hrs.
<b>Eighth Semester</b>		
HPE496	Internship in HPE (12)	
	TOTAL	12 sem. hrs.

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**BACHELOR OF SCIENCE IN HEALTH AND PHYSICAL  
EDUCATION – SPORT AND RECREATION ADMINISTRATION  
(Suggested Eight-Semester Sequence)**

<b>First Semester</b>		
HPE132	Health and Fitness Promotion in the Workplace (3)	
ENGL101	College Writing Skills (3)	
HPE265	Health Emergencies (3)	
MATH104	Finite Mathematics (3) or higher	
PSYC101	Introduction to Psychology (Core 4) (3)	
	TOTAL	15 sem. hrs.
<b>Second Semester</b>		
BIOL101	Human Biology (Distribution 3) (3)	
HPE145	Introduction to Recreation and Leisure (3)	
CSCI104	Essential Computing I (3) or Discipline- specific Computer Competency Course	
ENGL102	Specialized College Writing and Research Skills (3)	
HPE252	Leadership in Recreation Management (3)	
	TOTAL	15 sem. hrs.
<b>Third Semester</b>		
HPE300	Applied Anatomy and Physiology in HPE (3)	
HPE323	Social Culture of Sport (3)	
HPE324	Outdoor Recreation Programs (3)	
	Core 1 (3)	
	Distribution 2 (3)	
	TOTAL	15 sem. hrs.

<b>Fourth Semester</b>		
HPE384	Technology Integration in HPE (3)	
JOUR324*	Sports Writing (3) *or JOUR 360 (3)	
	Core 2 (3)	
	Core 3 (3)	
	Free Elective (3)	
	TOTAL	15 sem. hrs.
<b>Fifth Semester</b>		
HPE312	Org Admin Rec Sport Programs (3)	
HPE315	Mgmt of Sport and Physical Education Progs (3)	
COMM430	Organizational Communication (3)	
	Core 5 (3)	
	Free Elective (3)	
	TOTAL	15 sem. hrs.
<b>Sixth Semester</b>		
HPE402	Legal Aspects of Sports/Recreation (3)	
HPE424	Contemporary Issues in Recreation (3)	
COMM298	Business and Professional Communication (Dist 1) (3)	
	Core 6 (3)	
	Free Electives (6)	
	TOTAL	18 sem. hrs.
<b>Seventh Semester</b>		
HPE410	Facility Management/Operations (3)	
HPE406	Worksite Field Experience (3)	
	Core 7 (3)	
	Free Electives (6)	
	TOTAL	15 sem. hrs.
<b>Eighth Semester</b>		
HPE496	Internship in HPE (12)	
	TOTAL	12 sem. hrs.

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**BACHELOR OF SCIENCE IN HEALTH AND PHYSICAL  
EDUCATION – TEACHER CERTIFICATION  
(Suggested Eight-Semester Sequence)**

<b>First Semester</b>		
ENGL101	College Writing Skills (3)	
HPE133	Personal and Community Health I (3)	
HPE220	Basketball/Soccer/Track & Field (3)	
HPE278	Physical Education in the Elem. School (3)	
MATH104	Finite Mathematics (3) or higher	
	TOTAL	15 sem. hrs.
<b>Second Semester</b>		
ENGL102	Specialized College Writing and Research Skills (3)	
ENGL115	Intro to Literature (Core I) (3)	
HPE135	Drugs/Alcohol/Tobacco (3)	
HPE222	Principles of Fitness Instruction (3)	
HPE265	Health Emergencies (3)	
	TOTAL	15 sem. hrs.
<b>Third Semester</b>		
BIOL101	Human Biology (3) – Distribution - 3	
HPE215	Swimming/Tumbling/Adventure Actv. (3)	
HPE225	Volleyball/Softball/Football (3)	
HPE230	Golf/Tennis/Badminton (3)	
PSYC101	Introduction to Psychology (Core 4) (3)	
SEDU271	Educ. In Multicultural Society (3) – Core 5	
	TOTAL	18 sem. hrs.

**Fourth Semester**

MATH105	College Algebra (3)	
HPE245	Human Sexuality (3)	
SPED210	Intro to Exceptionalities and Special Ed (3)	
	Core (3)	
	Core (3)	
	Distribution (3)	
	<b>TOTAL</b>	<b>18 sem. hrs.</b>

**Fifth Semester**

HPE300	Applied Human Anatomy/Physiology in HPE I (3)	
HPE301	Applied Human Anatomy/Physiology in HPE II (3)	
HPE311	Planning and Evaluation in HPE (3)	
HPE364	Health Methodology (3)	
	Distribution (3)	
	<b>TOTAL</b>	<b>15 sem. hrs.</b>

**Sixth Semester**

HPE306	Classroom Management in HPE (3)	
HPE315	Management of Sports/Physical Education Programs (3)	
HPE360	Adapted Physical Education (3)	
HPE384	Technology Integration in HPE (3) – Computer Competency Course	
HPE350	Exercise Physiology (3)	
	<b>TOTAL</b>	<b>15 sem. hrs.</b>

**Seventh Semester**

HPE314	Kinesiology (3)	
HPE400	Critical Issues in Health (3)	
HPE405	HPE Field Experience (3)	
SPED370	Adaptations and Accom in Inclusive Settings (3)	
	Core (3)	
	Core (3)	
	<b>TOTAL</b>	<b>18 sem. hrs.</b>

**Eighth Semester**

HPE495	Student Teaching (12)	
	<b>TOTAL</b>	<b>12 sem. hrs.</b>

# Minor Programs

The purpose of Minor programs is to allow students to follow a planned program of coursework in addition to their own major. Minor program requirements vary between fifteen semester hours and twenty-four semester hours.

Minor programs are self-advised. They are structured to enable students to follow the program with limited advice.

The student must complete an application form for each minor and submit it to the Office of Records and Registration no later than their last semester prior to graduation. A student is limited to three minors he/she can apply for or complete. Minor requirements must be complete at the time of graduation. The dean of the school in which the graduating student is majoring will certify satisfactory completion of the minor(s).

The official transcript will show any minor program the student has satisfactorily completed at the time of graduation.

## Africana Studies

The program permits students to focus on African and African-American history and African-American literature. Moreover, students can learn about geography, philosophy, sociology and other disciplines and their relationship to the Africana experience. Secondly, the demand for Africana studies at Edinboro University has increased significantly in the past five years. Students have consistently asked for the minor as well as for more courses on the black experience. Presently, we have a core of faculty members who have the expertise and the desire to offer courses in the field of Africana studies. Finally, as we prepare for the 21st century, we will be living in a more diverse and multiethnic society. It will be important that our students develop a knowledge base, values, and an appreciation for different cultures and different historical experiences. Africana Studies is the systematic and critical study of the multidimensional aspects of African thought and actions. As an interdisciplinary discipline, the minor encourages both a specialized and integrative approach to subject areas in the social sciences and humanities. It seeks to provide students with a conceptual framework for examining the thought and actions of Africans and African-Americans. Courses within the minor are derived from various disciplines and thus this program seeks to integrate knowledge and practice with a multidisciplinary approach.

“Africana Studies” is chosen because it is one of the most widely used designations and it best describes the conceptual framework of our specific program. Africana Studies include courses that have the Africana experience as the principal object and content of the continental African experience in Africa and the Diaspora African experience, i.e., the African experience and influence in the United States, South America, the Caribbean, Canada, and the world.

### Prerequisites:

None

### Curriculum:

- |    |   |                                  |
|----|---|----------------------------------|
| A. | Required Courses                            | 12 sem. hrs.                     |
|    | ENGL310                                     | African-American Literature (3)  |
|    | HIST271                                     | Black America I (3)              |
|    | HIST272                                     | Black America II (3)             |
|    | HIST317                                     | Pre-Colonial Africa (3)          |
| B. | At least three courses to be selected from: | 9 sem. hrs.                      |
|    | GEOG380                                     | Geography of Africa (3)          |
|    | HIST316                                     | Women in Non-Western Nations (3) |
|    | HIST318                                     | Colonial Africa (3)              |
|    | HIST319                                     | History of Modern Africa (3)     |

HIST565	Slavery, Civil War, and Reconstruction (3)
PHIL312	Black/White: Appearance and Reality (3)
SOC364	Race and Ethnic Relations (3)
SSCI273	Black Images in Film (3)
	TOTAL 21 sem. hrs.

## Anthropology

### Prerequisites:

None

### Curriculum:

Any Anthropology courses and up to six semester hours of Archaeology courses of the student's choice to total 18sem. hrs.  
TOTAL 18 sem. hrs.

## Applied Mathematics

### Curriculum:

- |    |   |   |
|----|---|---|
| A. | Required Courses  | 12 sem. hrs.                                |
|    | MATH208   | Essentials of Calculus (3)                  |
|    | MATH270   | Discrete Math I (3)                         |
|    | MATH275   | Linear Algebra I (3)                        |
|    | MATH300   | Applied Statistic Methods/Data Analysis (3) |
| B. | Electives Option 1: Choose two of the following:                      | 6 sem. hrs.                                 |
|    | MATH 209  | Mathematics of Finance (3)                  |
|    | MATH 360  | Statistical Inference (3)                   |
|    | MATH 370  | Discrete Mathematics II (3)                 |
|    | Option 2: One course from the Option 1 list and one of the following: |   |
|    | CSCI 354  | Automata (3)                                |
|    | CSCI 385  | Data Struct. & An. Of Algorithms (3)        |
|    | ECON 410  | Economic Forecasting (3)                    |
|    | ECON 420  | Econometrics (3)                            |
|    | TOTAL   | 18 sem. hrs.                                |

## Archaeology

### Prerequisites:

None

### Curriculum:

Any Archaeology courses of the student's choice to total 18 sem. hrs.  
TOTAL 18 sem. hrs.

## Art History

### Prerequisites:

None

### Curriculum:

\*Any Art History Courses 21 sem. hrs.  
TOTAL 21 sem. hrs.  
\*ART100 Intro to Art will not count toward a minor.

## Astronomy

### Prerequisites:

For both the PHYS320, PHYS321 and the PHYS371, PHYS372 sequences, the courses MATH211 Calculus I and MATH212 Calculus II are required.

### Curriculum:

- |    |                        |                           |
|----|------------------------|---------------------------|
| A. | Basic Physics Sequence | 8 sem. hrs.               |
|    | PHYS201                | Physics I (4)             |
|    | PHYS202                | Physics II (4) <b>or</b>  |
|    | PHYS320                | University Physics I (4)  |
|    | PHYS321                | University Physics II (4) |

B.	Basic Astronomy Sequence	6 or 9 sem. hrs.
	PHYS271	Frontiers in Astronomy (3)
	PHYS371	The Solar System (3)
	PHYS471	Relativity, Black Holes and Cosmology (3)
C.	Solar Phenomena	3 sem. hrs.
	PHYS472	The Sun (3)
	TOTAL	15 or 20 sem. hrs.

BIOL310	Human Anatomy and Physiology (4)	
BIOL311	Basic Experimental Physiology (3)	
BIOL312	Human Physiology and Anatomy I (4)	
BIOL313	Human Physiology and Anatomy II (4)	
	Any course with PYMA prefix.	
	TOTAL	20 sem. hrs.

## Athletic Coaching

### Prerequisites:

None

### Curriculum:

Required Courses	21 sem. hrs.	
HPE222	Principles of Fitness Instruction (3)	
HPE270	Sports Nutrition (3)	
HPE310	Care and Prevention of Athletic Injuries (3)	
HPE323	Socio-Cultural Foundations Sport (3)	
HPE350	Exercise Physiology (3)	
HPE428	Coaching Techniques* (3)	
<i>One of the following courses</i>		
HPE220	Pedagogy for Team Sports (Basketball, Track and Field, Soccer) (3)	
HPE225	Pedagogy for Team Sports (Softball, Volleyball, Football) (3)	
HPE230	Pedagogy for Lifetime Activities: (Golf/Tennis/Badminton) (3)	
	TOTAL	21 sem. hrs.

\*A department committee with approval of the department chairperson or the department chairperson will grant or deny the waiver of these 3 credits. In either case, the recommendation will be forwarded to the dean. A consultation between the dean and the department chairperson will occur when there is a difference in recommendation. A copy of the approval waiver will be sent to the registrar for the student's academic file.

## Biology

### Prerequisites:

None

### Curriculum:

A.	Required Course(s)	4-8 sem. hrs.
	(Options 1 or 2 below)	
	<b>Option 1</b>	4 sem. hrs.
	BIOL150	Principles of Biology (4)
	(Any two of the following courses will be accepted for 4 sem. hrs. credits in lieu of the BIOL150 course.)	
	BIOL100	Intro to Biology (3)
	BIOL101	Human Biology (3)
	BIOL102	Environmental Biology (3)
	<b>Option 2</b>	8 sem. hrs.
	BIOL312	Human Physiology and Anatomy I (4)
	BIOL313	Human Physiology and Anatomy II (4)
	(BIOL340 Animal Physiology and BIOL341 Vertebrate Anatomy cannot be used as electives under this option.)	
B.	Electives*	12-16 sem. hrs.
	*Any course with a BIOL prefix may be chosen under this category except the following:	
	BIOL100	Intro to Biology (3)
	BIOL102	Environmental Biology (3)
	BIOL150	Principles of Biology (4)
	BIOL101	Human Biology (3)
	BIOL304	Biology of Aging (3)
	BIOL104	Introduction to Human Genetics (3)

## Business Administration

The minor in business administration is designed to introduce the student to the fundamental concepts of business. The minor includes broad exposure to accounting and the use of financial information, economics, the role of business in society, the legal context of business, management, and marketing.

### Prerequisites:

None

### Curriculum:

ACCT215	Principles of Accounting I (3)	
ACCT220	Principles of Accounting II (3)	
BUAD160	Business in Society (3)	
BUAD260	Business Law I (3)	
ECON220	Microeconomics (3)	
ECON225	Macroeconomics (3)	
MGMT260	Fundamentals of Management and Marketing (3)	
	TOTAL	21 sem. hrs.

## Ceramics

### Prerequisites:

Art Major

### Curriculum:

A.	Required Courses:	15 sem. hrs.
	ART101	Two Dimensional Design (3)
	ART102	Three Dimensional Design (3)
	ART216	Ceramics I (3)
	ART217	Ceramics II (3)
	ART315	Intermediate Ceramics (3)
B.	Select any two courses from the following:	6 sem. hrs.
	ART211	Metals I (3)
	ART236	Wood Furniture I (3)
	ART315	Intermediate Ceramics (3)
	ART480	Advanced Ceramics (3)
	Any ARHI (Art History) Course (3)	
	TOTAL	21 sem. hrs.

## Chemistry

### Prerequisites:

None

### Curriculum:

A.	Required Courses	12 sem. hrs.
	CHEM240	Principles of Chemistry I (4)
	CHEM241	Principles of Chemistry II (4)
	CHEM310	Quantitative Analysis (4)
B.	Electives	7-8 sem. hrs.
	Any Chemistry courses from the 300 level or higher	
	TOTAL	19-20 sem. hrs.

## Cinema

### Prerequisites:

Art Major

### Curriculum:

A.	Art History Requirement (3)	
	ARHI220	Introduction to Film & Video Art
B.	Concentration Requirement (9)	
	ART267	Film and Video Production (3)
	ART268	Beginning Animation (3)
	ART347	Computer Animation I (3)

- C. Concentration Elective – choose one of the following: (3)
    - ART367 Film and Video Production II
    - ART353 Animation II
    - ART348 Computer Animation II
  - D. Other Art or Supportive Requirements (6)
    - ART103 Four-Dimensional Design
    - ART105 Color
    - ENGL301 Creative Writing
- TOTAL 21 sem. hrs.

### Computer Science

The purpose of the Computer Science Minor is to provide the student with an opportunity to gain knowledge of the computer and skill in applying its technology to his/her major field of study. The minor can be coordinated with virtually any academic discipline.

A minimum of eighteen (18) semester hours of courses in Computer Science is required:

Nine (9) semester hours:

- CSCI125 Introduction to Computer Science (3)
- CSCI130 Principles of Programming I (3)
- CSCI230 Principles of Programming II (3)

Three (3) semester hours from the following:

- CSCI320 Business Programming in COBOL (3)
- CSCI330 Object Oriented Programming (3)

Six (6) semester hours from the following:

- CSCI280 PC System Operation and Administration (3)

any 300, 400 or 500 level Computer Science courses\*

Suggested track for business majors

- CSCI125 -> CSCI130 -> CSCI230 -> CSCI320
- > CSCI280 -> CSCI313 or -> CSCI308

Suggested track for science majors

- CSCI125 -> CSCI130 -> CSCI230 -> CSCI330
- > CSCI280 -> CSCI310

TOTAL 18 sem. hrs.

\*Some 300-level Computer Science courses require MATH270. You must choose courses in parts A and B above which allow you to satisfy all prerequisites for all upper level Computer Science courses that you take.

### Creative Writing

#### Prerequisites:

ENGL101/103 and ENGL102/104

#### Curriculum:

Seven courses in the following sequence:

- A. Core 6 sem. hrs.
    - ENGL301 Creative Writing (3)
    - ENGL385 Advanced Composition (3)
  - B. Intermediate Writing Courses 12 sem. hrs.
 

*Choose four from:*

    - ENGL322 Screenwriting (3)
    - ENGL402 Fiction Workshop (3)
    - ENGL403 Poetry Workshop (3)
    - ENGL440 Essay Workshop (3)
    - THEA351 Playwriting (3)
  - C. Advanced Writing Course 3 sem. hrs.
 

*Choose one from:*

    - ENGL441 Advanced Fiction Writing (3)
    - ENGL442 Advanced Poetry Writing (3)
    - ENGL443 Advanced Creative Nonfiction (3)
    - ENGL444 Advanced Screenwriting (3)
- TOTAL 21 sem. hrs.

### Criminal Justice

#### Curriculum:

- Required Courses 18 sem. hrs.
    - CRIM100 Introduction to Criminal Justice (3)
    - CRIM210 Introduction to Corrections (3)
    - CRIM230 Introduction to Policing (3)
    - CRIM265 Introduction to Courts, Criminal Law and Procedure (3)
  - + Any 2 additional CRIM designated courses.
- TOTAL 18 sem. hrs.

### Critical Thinking

#### Prerequisites:

None

#### Curriculum:

- A. Required Courses 9 sem. hrs.
    - COMM416 Persuasion and Propaganda (3)
    - PHIL121 Critical Thinking (3)
    - PHIL221 Beginning Logic (3)
  - B. Electives 9 sem. hrs.
 

Three courses to be selected from:

    - CHEM120 Chemistry in a Modern World (3) or
    - CHEM140 General Chemistry (4)
    - COMM515 Criticism of Mass Media Communication (3)
    - PHIL320 Logic (3)
    - PHIL324 Investigations of Claims of the Paranormal (3)
    - PHYS103 Physics I (4) or
    - POLI322 Public Opinion and Propaganda (3)
    - PSYC300 Learning Theory and Application (3)
    - PSYC390 Social Psychology (3)
- TOTAL 18 sem. hrs.

### Drawing

#### Prerequisites:

Art Major

#### Curriculum:

- ART106 Drawing I (3)
  - ART107 Drawing II (3)
  - ART231 Painting I (3)
  - ART307 Intermediate Drawing (3)
  - ART307 Intermediate Drawing or any Drawing course 300 level or above (3)
  - ART410 Advanced Drawing (3) or any Drawing course 300 level or above (3)
  - Any Art History course 300 level or above (3)
- TOTAL 21 sem. hrs.

### Earth Sciences

#### Prerequisites:

GEOS101 Dynamic Earth is prerequisite to GEOS112 Principles of Earth History.  
 GEOS320 Meteorology I is prerequisite to additional meteorology courses. Some advanced geology and astronomy courses require additional prerequisites.

#### Curriculum:

- A. Required Courses 15 sem. hrs.
    - GEOS101 Dynamic Earth (3) or
    - GEOS104 Intro. to Earth Environments (3)
    - GEOS112 Principles of Earth History (3)
    - GEOS310 Intro to Oceanography (3)
    - GEOS320 Meteorology I (3)
  - Any astronomy courses offered by the Department of Physics and Technology (3).
  - B. One additional course in geology, meteorology, oceanography (GEOS or MSCI number) or astronomy is required (GEOS109 Atmospheric and Space Science may not be taken to fulfill this requirement.) 3 sem. hrs.
- TOTAL 18 sem. hrs.



**Economics****Prerequisites:**

None

**Curriculum:**

A. Required Courses		9 sem. hrs.
ECON220	Principles of Microeconomics (3)	
ECON225	Principles of Macroeconomics (3)	
MATH150	Math for Business (3) OR	
MATH208	Essentials of Calculus OR	
MATH211	Analytical Geometry/Calculus I	
B. Electives		12 sem. hrs.
Any ECON (Prefix) courses at the 310 level or higher may be used to complete the minor.		
TOTAL		21 sem. hrs.

**English**

The minor in English is an abbreviated version of the B.A. degree program in English. Within its 21 required hours, the student will sample English, American and comparative literature, and elect at least two upper division English courses. In addition, each student will complete at least one upper division writing course and a language course.

**Prerequisites:**

ENGL101 College Writing Skills or ENGL103 College Writing Skills Advanced and ENGL102 Specialized Writing and Research Skills or ENGL104 Specialized Writing and Research Skills Advanced.

**Curriculum:**

A. Required Courses		15 sem. hrs.
ENGL201	American Literature Survey I (3) <b>or</b>	
ENGL202	American Literature Survey II (3)	
ENGL211	Traditional Grammar (3)	
ENGL241	English Literature from Chaucer to Milton (3) <b>or</b>	
ENGL242	English Literature from Swift to the Moderns (3)	
ENGL260	Literature of the Classical World (3)	
ENGL385	Advanced Composition (3)	
B. Upper level English Electives		6 sem. hrs.
(May be taken from 300, 400 or 500 levels.)		
TOTAL		21 sem. hrs.

**Environmental Geology****Prerequisites:**

None

**Curriculum:**

A. Required Courses		9 sem. hrs.
GEOS101	Dynamic Earth (3)	
GEOS112	Principles of Earth History (3)	
GEOS375	Environmental Geology (3)	
B. At least three courses to be selected from:		9 sem. hrs.
GEOS310	Intro to Oceanography (3)	
GEOS515	Mineral Resources (3)	
GEOS541	Geomorphology (3)	
GEOS545	Introduction to Hydrogeology (3)	
TOTAL		18 sem. hrs.

**Environmental Studies****Prerequisites:**

None

**Curriculum:**

Required Courses		18-19 sem. hrs.
GEOG145	Environmental Issues (3)	
GEOG245	Conservation of Natural Resources (3)	
GEOS101	Dynamic Earth (3) <b>or</b>	
GEOS104	Intro. to Earth Environments (3)	

GEOS109	Atmosphere and Space Science (3)
BIOL102	Environmental Biology (3) <b>or</b>
BIOL500	Ecology (3)
CHEM120	Chemistry in a Modern World (3) <b>or</b>
CHEM140	General Chemistry (4) <b>or</b>
CHEM240	Principles of Chemistry I (4)
TOTAL	18-19 sem. hrs.

**Fitness Instruction/Personal Training****Curriculum:**

Required Courses		18 sem. hrs.
HPE132	Health/Fitness Promotion in the Workplace (3)	
HPE222	Principles of Fitness Instruction (3)	
HPE265	Health Emergencies (3)	
HPE270	Sports Nutrition (3)	
HPE301	Applied Anatomy/Physiology in HPE II (3)	
HPE350	Exercise Physiology (3)	
<i>One of the following courses:</i>		
HPE215	Swimming/Tumbling/Adventure Activities (3)	
HPE314	Kinesiology (3)	
HPE450	Exercise Physiology II (3)	
TOTAL		21 sem. hrs.

**General Art****Prerequisites:**

None

**Curriculum:**

A. Required Courses		9 sem. hrs.
ART101	Two-Dimensional Design (3) <b>or</b>	
ART102	Three-Dimensional Design (3)	
ART106	Drawing I (3)	
ARHI323	Art of the 20th Century (3) <b>or</b>	
ARHI324	Art of the 19th Century (3)	
B. Any ART (Art) courses at the 200 level or higher with the exception of the following:		12 sem. hrs.
ART364	Problems in Film (3)	
ART407	Documentary Film (3)	
ART411	Experimental Film (3)	
ART412	Film Aesthetics (3)	
TOTAL		21 sem. hrs.

**Geographic Information Systems**

The purpose of the Geographic Information Systems (GIS) minor is to allow students to develop skills in GIS. Students completing the minor will learn to use a GIS to store, analyze, and display geographic data. GIS has many applications in fields such as geography, planning, environmental studies, geology, utilities, and business. The minor requires 18 semester hours.

**Prerequisites:**

None

**Curriculum:**

A. Required Courses		9 sem. hrs.
GEOG305	Basic Cartography (3)	
GEOG411	Spatial Analysis (3)	
GEOG413	Geographic Information Systems (3)	
B. Select Three courses from the following:		9 sem. hrs.
GEOG395	Geography Internship (3 hrs. in an approved GIS topic) (3)	
GEOG405	Advanced Cartography (3)	
GEOG414	Remote Sensing (3)	
GEOG420	GIS Applications in Business and Planning (3)	
GEOG513	GIS II: Modeling (3)	
TOTAL		18 sem. hrs.

## Geography

Geography is an interdisciplinary field that takes a spatial approach to studying phenomena. Geographical skills and viewpoints are desirable and useful in a wide range of applications and career areas. Geographers are interested in how physical or human-related phenomena are distributed across space (mapping), the underlying physical or social causes for the past or current distributions, how phenomena (i.e., resources, cultures, households, energy, ideas, etc.) are transferred from one place to another, and predicting or planning for future distributions of phenomena. Using a spatial point of view, a geographer can focus on any of a wide range of topics that include physical geography, human geography, and human-environment interactions. Because of this, geography pairs very well with many other fields of study from the physical sciences to the social sciences to the humanities to computer sciences.

All students completing the Geography Minor must take an introductory human geography course (either GEOG 101 or 130), an introductory physical geography course (GEOG 320), an introductory techniques course (GEOG 305), and at least one regional geography course. Together, these courses represent the core approaches within the discipline of geography. To round out the minor, students select 6 additional 200+ credits from any courses beginning with the GEOG prefix.

### Curriculum:

A. Required Courses:		9 sem. hrs.
GEOG 101	World Geography or	
GEOG 130	Cultural Geography	
GEOG 305	Cartography	
GEOG 320	Physical Geography	
B. One regional geography course		3 sem. hrs.
<b>Regional Courses</b>		
GEOG 260	Geography of the United States and Canada	
GEOG 365	Geography of Latin America	
GEOG 370	Geography of Europe	
GEOG 375	Geography of the Middle East	
GEOG 380	Geography of Africa	
GEOG 390	Geography of Asia	
GEOG 391	Field Geography	
Or other approved regional geography course.		
C. Select any two additional GEOG courses at the 200 level or above		6 sem. hrs.
	<b>TOTAL</b>	<b>18 sem. hrs.</b>

## Geology

### Prerequisites:

GEOS101 Dynamic Earth is prerequisite to GEOS112 Principles of Earth History and to other advanced geology courses. In addition, GEOS112 is prerequisite to GEOS521 Stratigraphy and Sedimentation, GEOS523 Invertebrate Paleontology, GEOS531 Structural Geology, and GEOS522 Regional Geology. GEOS311 Mineralogy is prerequisite to GEOS513 Igneous and Metamorphic Petrology.

### Curriculum:

A. Required Courses		6 sem. hrs.
GEOS101	Dynamic Earth (3)	
GEOS112	Principles of Earth History (3)	
B. Additional courses in geology at the 300 level or above are required to bring the minimum total number of hours in geology to 18.		12 sem. hrs.
	<b>TOTAL</b>	<b>18 sem. hrs.</b>

## German

### Prerequisites:

None

### Curriculum:

Any course with the GERM prefix will count toward the 18 credit hours to complete the minor in German.

**TOTAL** 18 sem. hrs.

## Gerontology

A focus in Gerontology (aging studies) is being offered at Edinboro University. Students interested in a program of study in Gerontology or in understanding the processes of aging will find a broad spectrum of course work at Edinboro and field experience available with many agencies in northwestern Pennsylvania who work with adult and older adult populations.

This program is designed to offer a student the opportunity to graduate with a major in any of several departments and a focus in gerontology.

The development of this focus has received strong support not only from the administration and the disciplines involved, but also from individuals and organizations that are potential employers of persons with this type of training. There is presently a national shortage of individuals equipped to work with geriatric and gerontology programs and surprisingly few colleges and universities are attempting to meet this need.

Students desiring to complete the Gerontology Focus and have it recorded on the official university transcript should contact Dr. Joyce Jagielo in the Psychology Department. An advisor will be appointed in the student's area of concentration and a program of study will be developed which will be sent to the committee on the Gerontology Focus for review and approval.

I. Courses included in the Core	18 sem. hrs.
PSYC319	Psychology of Adulthood and Aging (3)
BIOL304	Biology of Aging (3)
PHIL265	Death and Dying (3) <b>or</b>
NUHL500	End-of-Life Care
SOC370	Social Gerontology (3) <b>or</b>
ANTH501	Anthropology of Aging <b>or</b>
SOC390	Sociology of the Lifecycles
	Field Experience in Aging (in student's major department) (6)
II. Elective Courses	12 sem. hrs.
(To be taken from at least three departments)	
ANTH364	Culture, Illness and Curing (3)
ANTH501	Anthropology of Aging (3)**
BIOL646	Biological Aspects of Aging (3)
ENGL120	Medical Terminology (3)
Field experience over six hours – specify	
FIN360	Personal Financial Planning (3)*
FIN371	Seminar in Retirement Planning (1)*
FIN372	Seminar in Risk Management Planning (1)*
FIN373	Seminar in Estate Planning (1)*
GEOG350	Population Geography (3)
HPE265	Health Emergencies (3)
HPE355	Community Health Education (3)
HPE360	Adapted Physical Education (3)
NUHL100	Contemporary Women's Health (3)
NUHL500	End-of-Life Care (3)**
NUTR310	Nutrition (3)
NUTR400	Community Nutrition (4)
PHIL265	Death and Dying (3)**
PHIL342	Images of Humanity (3)
PHIL361	Ethics and Health (3)
POLI306	Public Administration I (3)
POLI307	Public Administration II (3)
POLI508/ECON508	Government Budgeting and Financing (3)
POLI510	Health Care Politics and Policy (3)
PSYC301	Psychology of Adjustment (3)
PSYC305	Close Relationships and Human Sexuality (3)

PSYC365	Abnormal Psychology (3)
PSYC370	Psychology of Personality (3)
PSYC375	Intro to Psychological Assessment
PSYC390	Social Psychology (3)
SHLD220	Survey of Communication Disorders in Adults (3)
SOC310	Population and Ecology (3)
SOC370	Social Gerontology (3)**
SOC390	Sociology of the Lifecycles (3)**
SOWK390	Aging and Human Services (3)
	<b>TOTAL</b> 30 sem. hrs.

\*FIN courses have numerous prerequisites and most likely would be chosen business majors seeking a Gerontology Focus.

\*\*If course is not used to fill the Core requirement.

## Graphic Design

### Prerequisites:

Art Major

### Curriculum:

A. Required Courses		18 sem. hrs.
ART101	Two-Dimensional Design (3)	
ART301	Principles of Graphic Design (3)	
ART258	Graphic Design Software (3)	
ART305	Typography I (3)	
ART316	Typography II (3)	
ART432	Publication Design (3)	
B. One of the following:		3 sem. hrs.
ART430	Interactive Design II (3)	
ART327	Corporate Identity (3)	
	<b>TOTAL</b>	21 sem. hrs.

## Health Studies

### Curriculum:

Required Courses		9 sem. hrs.
HPE133	Personal Health I (3)	
HPE364	Health Methodology (3)	
HPE400	Critical Issues in Health (3)	
<i>Two of the following courses:</i>		
HPE132	Health and Fitness Promotion in the Workplace (3)	
HPE320	Consumer Health (3)	
HPE355	Community Health (3)	
<i>Two of the following courses:</i>		
HPE135	Drugs/Alcohol/Tobacco (3)	
HPE245	Human Sexuality (3)	
HPE265	Health Emergencies (3)	
	<b>TOTAL</b>	21 sem. hrs.

## History

A minor in history (6 individually selected courses) is an excellent program to complement those majors which are directed toward specific technical skills. New careers continually are opening. A combination of history with other disciplines leads to expansion and diversification within a variety of careers which provides the graduate better opportunity for advancement within a profession and preparation for new careers as these arise.

### Prerequisites:

None

### Curriculum:

Eighteen semester hours of history courses of the student's choice	18 sem. hrs.
<b>TOTAL</b>	18 sem. hrs.

## Illustration

### Prerequisites:

Art Major

### Curriculum:

A. Required Courses		15 sem. hrs.
ART 101	Two-Dimensional Design (3)	
ART 106	Drawing I (3)	
ART 107	Drawing II (3)	
ART 303	Illustration I (3)	
ART 393	Illustration II (3)	
B. Any ART (Art) courses chosen from the following:		6 sem. hrs.
ART341	Digital Drawing & Painting (3)	
ART 342	Media & Techniques (3)	
ART 307	Intermediate Drawing (3)	
ART231	Painting I (3)	
ART409	Human Anatomy (3)	
ART372	Scientific Illustration (4)	
	<b>TOTAL</b>	21 sem. hrs.

## Introductory Applied Physics

### Prerequisites:

None

### Curriculum:

A. Required Courses		12 sem. hrs.
PHYS201	Physics I (4)	
PHYS202	Physics II (4)	
PHYS312	Tech Electronics II (4)	
B. Electives		6 sem. hrs.
Any two of the following courses may be selected to bring the minimum total number of hours in Physics to 17.		
PHYS301	The Nature of Sound (3)	
PHYS302	The Nature of Light and Color (3)	
PHYS303	The Nature of Nuclear Energy (3)	
	<b>TOTAL</b>	18 sem. hrs.

## Jewelry/Metalsmithing

### Prerequisites:

Art Major

### Curriculum:

A. Required Courses:		15 sem. hrs.
ART101	Two Dimensional Design (3)	
ART102	Three Dimensional Design (3)	
ART211	Metals I (3)	
ART215	Metals II (3)	
ART319	Intermediate Metals (3)	
B. Select two courses from the following:		6 sem. hrs.
ART216	Ceramics I (3)	
ART236	Wood Furniture (3)	
ART319	Intermediate Metals (3)	
ART472	Advanced Metals (3)	
Any ARHI (Art History) Course		
	<b>TOTAL</b>	21 sem. hrs.

## Journalism

The minor in journalism or public relations provides students with a broad range of experiences in the basic elements of the craft. The program places students in practical work situations using campus media outlets; it provides classroom theory in reporting, make-up, graphics, editing, editorial page policy and ethics. Students will also take six hours in journalism electives.

### Prerequisites:

None

### Curriculum:

Choose any six (6) journalism courses (JOUR) for a total of 18 semester hours.	18 sem. hrs.
<b>TOTAL</b>	18 sem. hrs.

## Latin American Studies

Students will choose 6 courses from at least two different prefixes or choose 5 courses from at least two different prefixes and demonstrate proficiency in Spanish.

### Prerequisites:

None

### Curriculum:

A. Required Courses		18 sem. hrs.
GEOG365	Geography of Latin America and Caribbean (3)	
HIST323	History of Latin America I (3)	
HIST324	History of Latin America II (3)	
HIST327	History of Mexico and Central America (3)	
LAS200	Heritage and Culture of Puerto Ricans (3)	
LAS204	US Interventions in Latin America (3)	
LAS489	The Maya Experience (3)	
LAS491	Gender, Language, and Culture Image of Mexico (3)	
LAS495	Internship in LAS (3)	
HIST329	US-Cuba Relations (3) or	
POLI329	US-Cuba Relations (3)	
POLI341	Government and Politics of Latin America (3)	
POLI548	U.S.-Latin American Relations: Contemporary Problems (3)	
SPAN100	Spanish Culture (3)	
SPAN335	Latin American Civilization (3)	
SPAN355	Survey of Latin American Literature I (3)	
SPAN356	Survey of Latin American Literature II (3)	
SPAN341	Mexico (3)	
	<b>TOTAL</b>	<b>18 sem. hrs.</b>

## Manufacturing Engineering Technology

### Prerequisites:

None

### Curriculum:

MFGT101	Manufacturing Process I	3 sem. hrs.
MFGT102	Manufacturing Process II	2 sem. hrs.
MFGT110	Technical Drawing I	3 sem. hrs.
MFGT111	Technical Drawing II	3 sem. hrs.
MFGT302	Computer Aided Drafting I	3 sem. hrs.
MFGT320	Cost Estimating	3 sem. hrs.
MFGT225	Statics and Strength of Materials or	
MFGT370	Motion and Time Study	3 sem. hrs.
	<b>TOTAL</b>	<b>20 sem. hrs.</b>

## Mathematics

The purpose of the Mathematics Minor is to provide students with an opportunity to study calculus and learn how it is applied in various fields, and to provide students with an opportunity to enhance their mathematical skills in general.

### Prerequisites:

None

### Curriculum:

A. Required Courses		12 sem. hrs.
MATH107	Precalculus (4)	
MATH211	Analytic Geometry and Calculus I (4)	
MATH212	Analytic Geometry and Calculus II (4)	
B. Electives		6 sem. hrs.
	Any mathematics course numbered 270 or above (except MATH403 and MATH404).	
	<b>TOTAL</b>	<b>18 sem. hrs.</b>

NOTE: If a student is exempted from one of the introductory required courses (MATH107 and/or MATH211), the student must substitute a three semester mathematics elective course numbered 209 or above, in place of each exempted course.

## Music

### Prerequisites:

None

### Curriculum:

A. Theory (MUSC201 Fundamentals of Music or MUSC124 Musicianship I*)		3 (4*) sem. hrs.
B. Performance Ensembles		6 sem. hrs.
	Any ensemble MUSC051 through MUSC073. Ensembles may be repeated for credit.	
C. History/Literature		6 sem. hrs.
MUSC103	Introduction to Music	
MUSC211	World Music	
MUSC240	Music of Broadway	
MUSC250	Music History	
MUSC251	Music History II	
MUSC343	Evolution of Jazz,	
MUSC344	American Music	
D. Electives		3 (2*) sem. hrs.
	Any MUSC course or combination of courses	
	<b>TOTAL</b>	<b>18 sem. hrs.</b>

\*By consent of Instructor

## Oceanography

### Prerequisites:

None

### Curriculum:

A. Required Courses		6 sem. hrs.
GEOS310	Intro to Oceanography (3)	
GEOS320	Meteorology I (3)	
B. Other approved field-based courses in oceanography (e.g. 3 credit summer courses taken at the Wallops Island, Virginia, Marine Science Consortium's Field Station)		9 sem. hrs.
	<b>TOTAL</b>	<b>15 sem. hrs.</b>

## Painting

### Prerequisites:

Art Major

### Curriculum:

A. Required Courses		
ART106	Drawing I (3)	
ART107	Drawing II (3)	
ART231	Painting (3)	
	Painting 200 level and above (6)	
	Art History any 300 level and above (3)	
	Select one course from the following: (3)	
	any Drawing course 300 level or above	
	any Painting course 300 level or above	
	Printmaking I	
	<b>TOTAL</b>	<b>21 sem. hrs.</b>

## Philosophy

### Prerequisites:

None

### Curriculum:

Prerequisite:		
PHIL200	Intro to Philosophy & Values Or	
PHIL240	Intro to Moral Issues (3)	
	15 sem. hours of philosophy electives	
	(any five philosophy courses)	
	<b>TOTAL</b>	<b>18 sem. hrs.</b>

**Photography****Prerequisites:**

Art Major

**Curriculum:**

- |   |                                 |
|---|---------------------------------|
| A. Select five courses from the following:  | 15 sem. hrs.                    |
| ART251  | Photography I (3)               |
| ART252  | Photography II (3)              |
| ART351  | Intermediate Photography I (3)  |
| ART352  | Intermediate Photography II (3) |
| ART451  | Advanced Photography I (3)      |
| ART452  | Advanced Photography II (3)     |
| B. Any ART (Art) or ARHI (Art History) course(s) with the exception of ART100 Intro to Art. | 6 sem. hrs.                     |
| <b>TOTAL</b>  | <b>21 sem. hrs.</b>             |

**Physics****Prerequisites:**

MATH211	Analytic Geometry and Calculus I (4)
MATH212	Analytic Geometry and Calculus II (4)
PHYS150	Physics Orientation (3)

**Curriculum:**

- |                  |                                    |
|------------------|------------------------------------|
| Required Courses | 13 sem. hrs.                       |
| PHYS320          | University Physics I (4)           |
| PHYS321          | University Physics II (4)          |
| PHYS325          | Introduction to Modern Physics (3) |
| PHYS322          | Physical Measurements Lab I (1)    |
| PHYS323          | Physical Measurements Lab II (1)   |
| <b>TOTAL</b>     | <b>13 sem. hrs.</b>                |

**Political Science****Prerequisites:**

None

**Curriculum:**

- |                                |                                |
|--------------------------------|--------------------------------|
| A. Required Courses            | 6 sem. hrs.                    |
| POLI100                        | Introduction to Politics (3)   |
| POLI101                        | Intro to American Politics (3) |
| B. Political Science Electives | 12 sem. hrs.                   |
| <b>TOTAL</b>                   | <b>18 sem. hrs.</b>            |

**Printmaking****Prerequisites:**

Art Major

**Curriculum:**

- |   |                              |
|---|------------------------------|
| A. Required Courses                       | 12 sem. hrs.                 |
| ART101                                    | Two-Dimensional Design (3)   |
| ART106                                    | Drawing I (3)                |
| ART221                                    | Printmaking I (3)            |
| ART325                                    | Intermediate Printmaking (3) |
| B. Elective Courses                       | 3 sem. hrs.                  |
| 1. Select one course from the following:  |                              |
| ART321                                    | Screen Print (3)             |
| ART322                                    | Lithography (3)              |
| ART323                                    | Intaglio (3)                 |
| ART324                                    | Relief (3)                   |
| ART329                                    | Photo-lithography (3)        |
| 2. Select two courses from the following: | 6 sem. hrs.                  |
| ARHI323                                   | Art of the 20th Century (3)  |
| ARHI324                                   | Art of the 19th Century (3)  |
| ARHI333                                   | Art of the 18th Century (3)  |
| ART107                                    | Drawing II (3)               |
| ART231                                    | Painting (3)                 |
| ART251                                    | Photography I (3)*           |
| ART258                                    | Graphic Design Software (3)  |
| ART268                                    | Beginning Animation (3)      |
| ART307                                    | Intermediate Drawing (3)*    |
| ART321                                    | Screen Print (3)*            |
| ART322                                    | Lithography (3)*             |

ART323	Intaglio (3)*
ART324	Relief (3)*
ART329	Photo-lithography (3)*
ART355	Intro to Digital Photography (3)
ART425	Advanced Printmaking (3)*

\*Recommended Courses

**TOTAL** 21 sem. hrs.**Psychology****Prerequisites:**

None

**Curriculum:**

Choose any six (6) psychology courses (PSYC only) to total 18 semester hours. Introduction to Psychology (PSYC101) is a prerequisite for all psychology courses, except PSYC110, and is included in the 18 semester hours requirement. Please refer to the course descriptions section in this catalog for other course prerequisites.

**TOTAL** 18 sem. hrs.**Religious Studies****Prerequisites:**

SOC100 or PHIL200 (3)

**Curriculum:**

- |  |  |
|--|--|
| A. Required Courses  | 9 sem. hrs.                              |
| Any THREE of these five foundational courses   |  |
| HIST336  | History of Religion in American (3)      |
| PHIL311  | World Religions (3)                      |
| PHIL350  | Philosophy of Religion (3)               |
| SOC343   | Sociology of Religion (3)                |
| SOC375   | Social Principles of Religion & Myth (3) |
| B. Electives   | 9 sem. hrs.                              |
| Three courses from the following 5 categories, but no more than ONE from any category: |  |
| 1. Religion in Art:  |  |
| ARHI344  | Medieval Art (3)                         |
| ARHI537  | Art of India (3)                         |
| ARHI552  | Art of the Pharaohs (3)                  |
| 2. Religion in History:  |  |
| HIST313  | History of Witchcraft (3)                |
| HIST334  | History of Christianity (3)              |
| PHIL301  | Medieval Philosophy (3)                  |
| 3. Religion in Literature:   |  |
| ENGL213  | Language of the Goddess (3)              |
| ENGL325  | Literature of the Bible I (3)            |
| ENGL326  | Literature of the Bible II (3)           |
| 4. Mythology and Diversity:  |  |
| ENGL388  | Mythology (3)                            |
| ENGL389  | World Mythologies (3)                    |
| HONS200  | Religion, Pop Culture, and Diversity (3) |
| 5. Religion from the Middle East and East:   |  |
| HIST310  | Islam and the West (3)                   |
| PHIL310  | Eastern Philosophy (3)                   |
| PHIL313  | African Philosophy (3)                   |
| <b>TOTAL</b>   | <b>18 sem. hrs.</b>                      |

**Sculpture****Prerequisites:**

Art Major

**Curriculum:**

- |                                |                              |
|--------------------------------|------------------------------|
| A. Required Courses            | 18 sem. hrs.                 |
| ART102                         | Three-Dimensional Design (3) |
| ART106                         | Drawing I (3)                |
| ARHI105                        | Overview of Art History (3)  |
| ART226                         | Sculpture I (3)              |
| ART227                         | Sculpture II (3)             |
| Any 300 level Sculpture Course | (3)                          |

B. Select one course from the following:	3 sem. hrs.
ART216 Ceramics (3)	
ART221 Metals (3)	
ART236 Wood Furniture (3)	
ART241 Weaving and Fibers 1 (3)	
Any 300 level Sculpture Course (3)	
TOTAL	21 sem. hrs.

## Sociology

### Prerequisites:

None

### Curriculum:

Any Sociology courses of the student's choice to total	18 sem. hrs.
TOTAL	18 sem. hrs.

## Spanish

### Prerequisites:

None

### Curriculum:

Any courses with a SPAN prefix count toward the 18 credit hours to complete the minor in Spanish.	
TOTAL	18 sem. hrs.

## Special Education

### Prerequisites:

PSYC101	Introduction to Psychology
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### Curriculum:

Required Courses	
SPED210	Introduction to Exceptionalities/Special Education
SPED240	Managing Inclusive Learning Environments
SPED320	High Incidence Disabilities
SPED340	Low Incidence Disabilities
SPED350	Language and Literacy Skills for Exceptional Students
SPED 370	Adaptations/Accommodations in Inclusive Settings
TOTAL	18 sem. hrs.

## Theatre Arts

### Prerequisites:

Students who elect to minor in Theatre Arts are expected to contribute in some way to dramatic productions produced by the department.

### Curriculum:

A. Required Courses	9 sem. hrs.
THEA202	Play Analysis (3)
THEA218	Intro to the Theatre (3)
THEA203	Fundamentals of Acting (3)
B. Approved Electives	9 sem. hrs.
Any additional offered Theatre Courses or	
MUSC066	Opera Workshop (1)
MUSC113	Class Voice (1)
MUSC240	Music of Broadway (3)
ENGL301	Creative Writing (3)
ENGL315	Shakespeare I (3)
ENGL319	Shakespeare II (3)
ENGL322	Screenwriting (3) (prerequisite ENGL301)
ENGL330	Literature and Film (3)
COMM107	Public Speaking (3)
JOUR307	Audio Production (3)
JOUR309	Intro to TV Production (3)
COMM313	Oral Interpretation (3) (prerequisite COMM107)
ART267	Film and Video Production I (3)
ART367	Film and Video Production II (3) (prerequisite ART267)
TOTAL	18 sem. hrs.

## Women's Studies

### Prerequisites:

None

### Curriculum:

A. Required Course	3 sem. hrs.
WMST204	Introduction to Women's Studies
B. At least five courses to be selected from:	15 sem. hrs.
ARHI541	History of Women in Art
COMM225	Interpersonal Communications*
COMM680	Gender and Communications
ENGL213	The Language of the Goddess
ENGL365	Images of Women in Literature
ENGL420	Feminist Literary Criticism
HIST313	History of Witchcraft
HIST314	History of Women in Europe
HIST315	History of Women in the U.S.
HIST316	History of Women in Global Societies
HIST415	History of African-American Women
HIST515	History of Feminism in Action
HIST520	History of Women and War: 20 <sup>th</sup> Century US
MUSC247	Music, Gender and Identity
SOC340	Sociology of Marriage and the Family**
WMST360	Philosophy and Feminism
TOTAL	18 sem. hrs.

\*Prerequisite COMM107

\*\*Prerequisite SOC100 (or permission of instructor)

## Wood/Furniture Design

### Prerequisites

Art Major

### Curriculum:

A. Required Courses:	15 sem. hrs.
ART101	Two Dimensional Design
ART102	Three Dimensional Design
ART236	Wood/Furniture I
ART237	Wood/Furniture II
ART338	Intermediate Wood/Furniture
B. Select two courses from the following:	6 sem. hrs.
ART338	Intermediate Wood/Furniture
ART438	Advanced Wood/Furniture
ART211	Metals I
ART216	Ceramics I
Any ART (Art) or ARHI (Art History) course(s) with the exception of ART100 Intro to Art	6 sem. hrs.
TOTAL	21 sem. hrs.

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## Associate Degree Programs

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Edinboro University of Pennsylvania offers a number of associate degree and special certificate programs. For detailed descriptions of program requirements, consult the program descriptions listed under the appropriate departments. These programs are listed in the Index.

### College of Arts, Humanities, and Social Sciences:

Department of English and Liberal Studies

Associate of Arts Degree – Liberal Studies

Department of Political Science and Criminal Justice

Associate of Arts Degree – Criminal Justice

Department of Sociology

Associate of Arts Degree – Human Services - Social Services

### College of Science and Health Professions:

Department of Chemistry

Associate of Science Degree – Pre-Pharmacy

Department of Mathematics and Computer Science

Associate of Science Degree – Computer Science

Department of Physics and Technology

Associate of Applied Science – Applied Technology

Associate of Engineering Technology Degree – Manufacturing

Engineering Technology

### School of Business:

Department of Business and Economics

Associate of Science Degree – Business Administration

### School of Education:

Department of Early Childhood and Special Education

Associate of Arts Degree – Human Services – Development

Disabilities Specialist

Associate of Science Degree – Preschool Education

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## The Harrisburg Internship Semester (THIS)

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The Dixon University Center of the State System of Higher Education (SSHE) in Harrisburg will sponsor, each semester during the academic year, a student internship program for one outstanding undergraduate student from each of the fourteen state system universities.

The major purposes of the internship program are to provide students with an important practical experience and an enriching academic experience. Students will be placed in offices where they will participate directly in public policy formulation.

The internship experience will be structured in the following way:

- I. Internship (nine credit hours)  
This is the practical component of the internship experience, which includes the day-to-day work experience in a government position.
- II. Intern Project (three credit hours)  
One of the many advantages of studying in Harrisburg is the opportunity to develop direct knowledge of state politics and public policy development. The intern project component of the THIS program serves three purposes. First, it encourages students to focus their attention on a particular aspect of state government politics and policymaking. Second, the requirement affords the student an opportunity to develop an in-depth knowledge about that subject. Third, it gives the students the opportunity to develop skills in public research and the preparation of formal oral presentations.
- III. Seminar on Public Policymaking (three credit hours)  
The seminar will meet one night per week at the Dixon University Center in Harrisburg. This seminar will explore policy making within the Harrisburg community by looking carefully at both the institutions which shape the state's political life and those individuals who play a major role in influencing institutional behavior. The seminar will serve a two-fold purpose: first, to introduce the student to concepts which will help them understand the political environment in which they will be working on a daily basis; second, to provide a focal point for integrating their various learning experiences in Harrisburg.

Prospective student interns will be chosen by the THIS Selection Committee as a recommendation to the President. The President will make the final selection. The student intern must, at the time of appointment, have maintained at least a 3.25 grade point average in 45 earned undergraduate credit hours. A student may be chosen from any academic major.

# COURSE DESCRIPTIONS



EDINBORO  
UNIVERSITY



## Course Numbering System

### 000-049:

Courses with these numbers are undergraduate courses. Credit earned in these courses may not be used in meeting requirements for graduation except in music courses. The numbers 050-599 are used to designate courses with undergraduate credit that may be applied toward two and four year degrees unless otherwise noted in the course description.

### 100-level courses:

Generally these are for first-year students. They are introductory and do not carry prerequisites.

### 200-level courses:

Generally these are for second-year students. Although these courses are like the 100-level courses in that they do not have prerequisites, they generally required a higher skill level, more appropriate to second-year students.

### 300-level courses:

These are upper division courses, designed mainly for third-year students. They generally carry prerequisites and involve greater specialization in the discipline.

### 400-level courses:

These are upper division courses, designed mainly for fourth-year students. The course work involves great depth and specialization in the discipline. Prerequisites are specified and may be more than one.

### 500-level courses:

These courses are designed for both advanced undergraduate students and some graduate students. They carry prerequisites. Graduate students are required to do additional work.

### 600-level courses:

These courses are for graduate students only. An undergraduate who desires to register for a 600-level course must petition the dean of graduate studies and research. Only upon successful acceptance of this petition may the undergraduate student register for the 600-level class.

### 700-799

Courses with these numbers are graduate courses and enrollment in these courses is limited to individuals admitted to the Graduate Program of Edinboro University.

\*\* A double asterisk after a graduate course title indicates the course was designed for majors only.

## - A -

### ACCT215 ACCOUNTING I 3 sem. hrs.

Emphasis is placed on the main aspects of the accounting structure. The fundamental accounting principle is presented in the form of the balance sheet equation. This is followed by the logical development of the subject debits and credits, the special journals, specific account classifications, and control mechanisms of various types.

### ACCT220 ACCOUNTING II 3 sem. hrs.

Emphasis is placed on accounting for business entities including partnerships and corporations, issuance of long term debt, and financial interpretation and analysis of financial statements. The course also includes an introduction to managerial accounting and using accounting information for business decision making. Prerequisite: **ACCT215**.

### ACCT315 INTERMEDIATE ACCOUNTING I 3 sem. hrs.

An intensive study of accounting principles, conventions, and rules. Cost and revenue concepts are stressed. Topics: working papers, financial statements, partnerships, corporations, interest and annuities, and cost concepts. Prerequisite: **ACCT220**.

### ACCT320 INTERMEDIATE ACCOUNTING II 3 sem. hrs.

A continuation of **ACCT310**. Topics: valuation of cash, receivables, inventories, tangible fixed assets, intangible assets, and investments. Topics also include funds and reserves, corporation financial statements and analyses of working capital, profits and funds flows. Prerequisite: **ACCT315**.

### ACCT325 MANAGERIAL ACCOUNTING 3 sem. hrs.

This course develops an understanding of the concepts and technical applications associated with cost accounting in an organizational setting. Knowledge of the costing process will enhance the student's ability to add value to the organization and advance the student's development in business decision-making. Prerequisites: **Enrollment in a BSBA concentration**, and **ACCT220**.

### ACCT330 FEDERAL INDIVIDUAL INCOME TAXATION 3 sem. hrs.

This course explores the law of federal income taxation and offers theoretical understanding of the underpinnings of the United States' major tax law, as well as a practical understanding of the administration of that law. Prerequisite: **Enrollment in a BSBA concentration**, and **ACCT220**.

### ACCT335 TAX ACCOUNTING – ADVANCED TOPICS 3 sem. hrs.

This course covers the federal tax treatment of entities. Particular areas of study include federal income tax on corporations, partnerships and trusts, and estates. Also studied is the federal gift and estate tax law, tax research and tax planning concepts are developed. Prerequisite: **Enrollment in a BSBA concentration**, and **ACCT220**.

### ACCT400 AUDITING I 3 sem. hrs.

This course discusses the purposes and organization of financial audits, including the use of studies to evaluate internal control mechanisms and procedures. Topics include preparation of audit programs for all financial accounts and preparation of auditing work papers. Emphasis is on generally accepted auditing standards. Prerequisite: **Enrollment in a BSBA concentration**, and **ACCT320**.

### ACCT405 AUDITING II 3 sem. hrs.

This course presents the methodology and purpose of independent auditing; these include the nature and amount of audit evidence necessary for preparing audit reports. It also discusses the auditor's professional liability, ethics, independence, and responsibilities as well as specific methods of review and evaluation related to internal control. Other topics include management advisory services and compiled and reviewed financial statements. Prerequisite: **Enrollment in a BSBA concentration**, and **ACCT400**.

### ACCT420 ADVANCED ACCOUNTING 3 sem. hrs.

A course designed for students who are training to become professional accountants, either public or private. Topics: Specialized accounting problems such as agency and branch accounting, joint ventures, corporate combinations, consolidations and mergers, consolidated financial statements, and specialized accounting systems. Prerequisite: **Enrollment in a BSBA concentration**, and **ACCT320**.

### ACCT430 FORENSIC ACCOUNTING 3 sem. hrs.

This course instructs students in the basic principles of forensic accounting including the history of investigative accounting and the qualifications of investigators. Students will study fraudulent financial reporting, misappropriation of assets, indirect methods of misappropriating income, money laundering and cash flows, evidence management, loss valuations, and providing litigation support and testimony. Prerequisite: **Enrollment in a BSBA concentration**, and **ACCT400**.

**ACCT490 INDEPENDENT STUDY:  
ACCOUNTING****Variable Credit**

The Independent Study program aims to serve those students whose scholarly bent seems most clearly adapted to independent work. Students are permitted to resolve problems and to earn credit for work performed outside the classroom requirement of any specific course in the curriculum. Prerequisite: **Enrollment in a BSBA concentration.**

**ACCT495 INTERNSHIP IN  
ACCOUNTING****3-15 sem. hrs.**

The accounting internship provides students with an on-the-job learning experience in a public accounting firm or in the accounting functions of a commercial firm, government agency, or institution. Interns have an opportunity to apply classroom learning in a practical work environment. Accounting interns must have earned 60 credits, with at least 15 of those credits taken at Edinboro University, and including a minimum of 9 credits in the accounting requirements section (section III) of the business administration – accounting or accounting/forensic accounting curriculum requirements. A minimum 2.6 grade point average in his/her major and 2.4 grade point average overall is required. Application approval will be in accordance with University policy. Prerequisite: **Enrollment in a BSBA concentration.**

**ANTH106 INTOLERANCE: A  
CULTURAL HISTORY  
OF HATE****3 sem. hrs.**

This course examines expressions of intolerance around the world, including such topics as ethnocentrism, tribalism, genocide, ethnocide, prejudice, and discrimination. It explores the ways in which cultures shape our concepts of self and other and promote ethical conduct but also inspire acts of hate. It examines efforts to create a transcultural code of ethics compatible with the idea of cultural relativism. This course is approved for General Education Core 6 Ethics.

**ANTH180 INTRODUCTION TO  
ANTHROPOLOGY****3 sem. hrs.**

This course acquaints students with a holistic approach to the study of humanity by examining the four major subfields of Anthropology: physical anthropology, archaeology, anthropological linguistics, and cultural anthropology. Emphasis is placed on understanding the complexity of human biological and behavioral diversity. This course has been approved for General Education Core 4 Human Behavior.

**ANTH205 INTRODUCTION TO  
MULTICULTURAL****AMERICA 3 sem. hrs.**

This course surveys the history and culture of the many ethnic groups in the United States in the context of social class, gender, education, and age. It also examines topics such as race, immigration, religion, politics, the role of the family, education, and the impact of these groups on mainstream American society. This course is approved for General Education – Core 5.

**ANTH220 MUSEUM ETHICS****3 sem. hrs.**

This course will introduce current ethical concerns relevant to museums and the various audiences they serve. As institutions that must build trust with their public, museums need to clearly understand how good decisions are made and the repercussions of poorly made decisions. Ethical standards for museums will be explored across the wide range of topics including administration, curation, exhibition, and conservation. This course is approved for General Education Core 6 Ethics.

**ANTH275 INTRODUCTION TO  
CULTURAL  
ANTHROPOLOGY****3 sem. hrs.**

An examination of the major characteristics of human culture. The patterning and integration of cultural ethos and value systems; consideration is given to culture and personality, ideology, religion, language and change.

**ANTH305 ANTHROPOLOGY OF  
FOOD AND EATING****3 sem. hrs.**

This course examines how food and eating are an essential part of human existence. It explores the many biological, cultural, and social uses of food and eating from a holistic cross-cultural perspective, starting with the earliest humans and continuing into the future. Prerequisite: Sophomore standing or permission of instructor.

**ANTH310 INTRODUCTION  
TO FORENSIC  
ANTHROPOLOGY****3 sem. hrs.**

This course provides a broad overview of forensic anthropology – an applied field of physical anthropology. Forensic anthropology draws upon the study of skeletal biology to solve problems of medicolegal significance. This course will provide an introduction to the principles and legal aspects of personal identification in multiple forensic contexts. In addition through case studies, students will have the opportunity to learn how forensic anthropologists use their skills as they investigate mass disasters, political atrocities, and suspicious deaths around the world. Prerequisite: Sophomore standing or permission of instructor.

**ANTH315 RITUAL, MAGIC AND  
MYTH****3 sem. hrs.**

This course examines religious belief and ritual in nonliterate societies as well as popular movements among followers of world religions. It focuses on religion as an aspect of culture that offers people a means to understand and adapt to a changing world. Topics include theories of religious origins, magic and divination; witchcraft and sorcery; ghosts, spirits, and gods; mythology; and religious movements. Prerequisite: Sophomore standing or permission of instructor. This course is approved for General Education – Distribution 2.

**ANTH353 APPLIED  
ANTHROPOLOGY****3 sem. hrs.**

This course explores the ways in which anthropologists use their knowledge and skills to improve intercultural communication, to promote positive cultural and social change, and to assist victims of change in the United States and in other industrial and nonindustrial societies. It offers practical methods for understanding and working with people of other cultures. Prerequisite: Sophomore standing or permission of instructor.

**ANTH364 CULTURE, ILLNESS AND  
CURING****3 sem. hrs.**

This course offers a cross-cultural understanding of health and illness beliefs and practices. It examines the impact of modern biomedicine upon traditional peoples and cultures, problems of communication between health practitioners and patients of other cultures, as well as the confrontation in the United States between biomedicine and alternative systems of healing. Prerequisite: Sophomore standing or permission of instructor. This course is approved for General Education – Distribution 2.

**ANTH 365 LIVING WITH THE DEAD:  
MORTUARY STUDIES IN  
CROSS-CULTURAL  
PERSPECTIVE****3 sem. hrs.**

In this course, we will explore how contemporary, historic, and prehistoric cultures respond to death. The focus of this course will be on the corpse – how the living react to a dead body, how they treat the dead body prior to and during disposal, and what powers are ascribed to the dead. We will also explore the experiences of those in our own culture that routinely interact with dead bodies – morticians, medical examiners, disaster responders, and forensic anthropologists. Prerequisite: Sophomore standing or permission of instructor.

**ANTH371 INTRODUCTION TO  
ARCHAEOLOGY****3 sem. hrs.**

Archaeology, a sub discipline of anthropology, systematically studies man's prehistoric and historic past from the remains of human behavior. It also provides the means with which to verify historical facts, fill in gaps in historical knowledge, and correct biases inherent in history. This course introduces a diversity of research problems, data gathering techniques, analyses, and conceptual frameworks which form an intrinsic part of modern day archaeology. Prerequisite: Sophomore standing or permission of instructor. This course is approved for General Education –Distribution 2.

**ANTH372 CULTURES OF THE  
WORLD****3 sem. hrs.**

The course surveys world cultures and describes the methods anthropologists use to study them. It explores in cross-cultural perspective such topics as adaptation to the environment, language, art, values, politics, law, marriage and the family, as well as culture change and the impact of the West upon third-world populations. Prerequisite: Sophomore standing or permission of instructor. This course is approved for General Education – Distribution 2.

**ANTH373 ARCHAEOLOGICAL  
FIELD STUDIES****3-12 sem. hrs.**

This course has two complementary aspects. During the summer and fall sessions archaeological field techniques are applied to the excavation of actual sites. During the spring semesters archaeological laboratory techniques are applied to the preparation and analysis of archaeological data. Graduate students will demonstrate a deeper understanding of the complexities of archeological field studies. Prerequisite: Sophomore standing or permission of instructor.

**ANTH374 INDIANS OF NORTH  
AMERICA****3 sem. hrs.**

This course looks at the traditional and contemporary cultures of Eskimos and North American Indians. It examines Native American adaptations to the environment, social and political organization, religion, life styles and values, histories of contact with outsiders, and problems of survival in the modern world. Prerequisite: Sophomore standing or permission of instructor. This course is approved for General Education – Distribution 2.

**ANTH378 NATIVE AMERICA  
BEFORE COLUMBUS****3 sem. hrs.**

This course surveys the development of Native American cultures, as revealed in the archeological record, for the first 20,000

years before European contact. Models are examined which describe and explain the interrelationships between pre-Columbian cultural systems and their respective cultural and physical environments. Special emphasis is placed upon examining interrelationships among the technological sociological and ideological subsystems of individual pre-Columbian Native American cultural systems. Prerequisite: Sophomore standing or permission of instructor.

**ANTH379 FROM EARLY MAN TO  
EARLY CIVILIZATION IN  
THE OLD WORLD****3 sem. hrs.**

This course surveys the development of cultures in Europe, Africa, Asia, Australia, and the Pacific from their first evidence through the earliest civilizations, as revealed in the archaeological record. Models are examined which describe and explain human cultural evolution. Interrelationships among the technological, sociological, and ideological subsystems of individual cultural systems are emphasized. Prerequisite: Sophomore standing or permission of instructor. This course is approved for General Education – Distribution 2.

**ANTH381 ANTHROPOLOGICAL  
THEORY****3 sem. hrs.**

This course is concerned with the development of thought about man and his culture. Among the schools of thought considered are: 19th century evolutionism, British and German diffusionism, the American Historical School, functionalism, and 20th century evolutionism. Prerequisite: ANTH275 or ANTH180.

**ANTH385 INTRODUCTION TO  
PHYSICAL  
ANTHROPOLOGY****3 sem. hrs.**

This course is an introduction to the study of people as bio-cultural organisms. Human biology is viewed in relation to culture, society, and human behavior. The place of homo sapiens in the scheme of evolution is the central theme. The evolutionary history of humankind is traced through the fossil record. Homo sapiens relationship with the other living primates is demonstrated. Molecular biology and its contributions to our understanding of human evolution are investigated. Ecology, overpopulation, and other current human problems are discussed in the light of their impact on the future of the human species. Prerequisite: Sophomore standing or permission of instructor. This course is approved for General Education – Distribution 2.

**ANTH 390 HUMAN EVOLUTION****3 sem. hrs.**

This course examines the fossil record of human evolution and offers a survey of the evolutionary development of humans, from earliest hominine forms to the present. Theories of the origin, diversity, and continuing evolution of humans are considered. Prerequisite: ANTH180 Introduction to Anthropology or ANTH385 Introduction to Physical Anthropology or permission of the instructor.

**ANTH395 FIELD EXPERIENCES IN  
ARCHAEOLOGY****2-5 sem. hrs.**

Emphasis is placed upon developing archaeological research skills through supervised internships or field work at archives or historical sites. Utilizing college archives, Erie and Crawford County records, municipal materials, or material available at other sites in the United States or abroad. The student will acquire advanced historical research skills and will prepare a substantial paper. Credit as arranged. Prerequisite: Sophomore standing or permission of instructor.

**ANTH397 SPECIAL TOPICS IN  
ANTHROPOLOGY****1-3 sem. hrs.**

The subjects in anthropology treated in this course will vary depending upon student and instructor interests and are beyond the scope of materials treated extensively in regularly scheduled courses. A list of topics is maintained in the files of the department head.

**ANTH400 CAPSTONE SEMINAR IN  
ANTHROPOLOGY****3 sem. hrs.**

In this course students will apply the methods and theories of anthropological research to an empirical research problem or question that they develop. The students will conduct research, collect and analyze data, and present their finding in written and oral formats. In addition, students will prepare for their future careers as anthropologists by exploring career options, assessing their job-related skills, and producing a career portfolio. Prerequisites: Junior standing, MATH260 and ENGL 102.

**ANTH403 THE HUMAN LANGUAGE  
AND IT'S SPEAKERS****3 sem. hrs.**

This course explores anthropological linguistics. Students will have the opportunity to examine the interrelationship between language and culture by studying the cultural aspects of word meaning, syntactic patterns and semantics from both historic and contemporary perspectives. Undergraduate Prerequisites: ANTH180 or PSYC101.

**ANTH408 ETHNOGRAPHIC METHODS 3 sem. hrs.**

This course focuses on ethnography as a way of understanding culture. It considers the history and goals of ethnography as well as the methods of ethnographic research design, fieldwork, and analysis in anthropology, including participant observation and in-depth interviewing. Students will have the opportunity to review critically the work of other researchers and to develop, undertake, and discuss their own ethnographic research projects. Prerequisites: ANTH180 or permission of the instructor.

**ANTH490-494 INDEPENDENT STUDY 2-5 sem. hrs.****ANTH495 INTERNSHIP IN ANTHROPOLOGY 3-12 sem. hrs.**

This internship in anthropology provides practical, on the job experience and enables students to apply concepts and theories to the work environment. Further, it enhances student employability and helps with graduate school admission. Prerequisite: Sophomore standing or permission of instructor.

**ANTH500 BASIC ARCHAEOLOGY FOR THE TEACHER 3 sem. hrs.**

This course will acquaint teachers with basic aspects of archaeological work through lecture, audio-visual, field work, and laboratory experiences. The course will focus on fundamental concepts in archaeology, Pennsylvania archaeology, the process of archaeology, and the issues in archaeology. Teachers will learn to understand and use lesson plans developed by federal and Pennsylvania archaeologists for Project Archaeology (a national archaeology curriculum), among others. Although the material targets grades four through eight, it can be easily adapted for other grade levels. Prerequisites: Must be a state certified teacher or enrolled in a degree program offered by an accredited school of education, Must be Sophomore standing or permission of the instructor.

**ANTH501 ANTHROPOLOGY OF AGING 3 sem. hrs.**

This course is an introduction to the cross-cultural study of aging. The process of aging is studied from the holistic perspective of anthropology. The statuses and roles of the elderly are examined as they exist in a variety of cultures. Emphasis is placed on understanding both the process of aging as it is handled cross-culturally and the relationship of other cultural variables to that process. Prerequisite: ANTH180 or ANTH275 or permission of the instructor.

**ANTH510 ADVANCED METHODS IN FORENSIC ANTHROPOLOGY 4 sem. hrs.**

The foundation of forensic anthropology is the study of the human osteology and this lab-based course provides an intensive study of this field. The course includes a review of normal skeletal anatomy, variation, and growth while emphasizing the techniques of age, sex, race, and stature determination. In addition, applications of osteological analysis will be discussed as they occur in forensic contexts. Topics to be discussed include sharp force, blunt force, and ballistic trauma; burned bodies; and forensic, non-forensic, and nonhuman remains. This knowledge forms the underpinning for advanced study in forensic anthropology, paleoanthropology, human osteology, and medicine. Prerequisite: ANTH310 Introduction to Forensic Anthropology or permission of the instructor.

**ARED305 FIELD EXPERIENCE I 3 sem. hrs.**

This course provides art teacher education majors with an overview of the professional field with emphasis on rationales for teaching art and contemporary art teaching practices. Students in the course observe in schools and reflect on their own art learning experiences to explore the teaching profession and personal growth. Prerequisite: **Teacher Candidacy**.

**ARED310 INTRODUCTION TO ART THERAPY 3 sem. hrs.**

This course provides an introduction to the definitions, historical roots, theoretical underpinnings, and basic elements of the field of Art Therapy. Course topics will include an examination of the major contributors to the field, what Art Therapists do, where Art Therapists work, how art-making can be used to affect behavioral, and emotional changes.

**ARED314 INTRODUCTION TO ART EDUCATION 3 sem. hrs.**

This course provides art education majors with professional theories and practices at an introductory level. It focuses on art teaching strategies and art unit development that include Pennsylvania and National Art Education Standards, motivation, assessment strategies, professional art classroom management, and preparation for art materials. In addition, this course emphasizes technology issues in art education and museum and community collaboration with public school.

**ARED315 CURRICULUM DEVELOPMENT IN ART EDUCATION 3 sem. hrs.**

This course reviews and introduces the elements needed to create an art education curriculum including art education history,

artistic development theories, special needs adaptations, art education assessment techniques, design fields, and philosophy. Preparation for working in the art classroom is covered with topics on classroom management and discipline, art classroom design, and field experience in the art museum. Prerequisite: **ARED314** and **Teacher Candidacy**.

**ARED320 ART OF THE YOUNG CHILD 3 sem. hrs.**

A study of the background, development stages, creativeness and motivation necessary to teach art to young children. Studio practice in art activities that can be adapted to children will be an important part of the course.

**ARED383 TECHNOLOGY PORTFOLIO IN ART EDUCATION 3 sem. hrs.**

This course provides students with methods and means for using instructional technology to solve teaching-learning problems in art education. It also enables students to develop their own electronic teaching portfolio as an on-going, working portfolio, and/or employment portfolio to prepare for future job interviews.

**ARED425 ART EDUCATION FOR SPECIAL POPULATIONS 3 sem. hrs.**

The general objective for methods in art are reviewed and studied in relation to the needs of special education students in order to gain insight into how best to have meaningful activities in art for various types of exceptional children. Prerequisite: **Teacher Candidacy**.

**ARED475 FIELD EXPERIENCE II 3 sem. hrs.**

This course provides the art major with a variety of activities and experiences with special needs students and ELL students in the setting of an actual school art program. The student serves in the capacity of an art teacher collaborator, observing, preparing, and delivering instruction in a supervised pre-student teaching field experience. Prerequisites: **ARED305** and **Teacher Candidacy**.

**ARED486 PROFESSIONAL TOPICS IN ART EDUCATION 1 sem. hr.**

This course provides basic information about topics of particular relevance to art teachers, including current issues in education, school law, health related issues, art classroom management, professional development, and preparation for an art teaching job. It combines lecture, in-class and online discussions, reading assignments, PowerPoint presentations, LiveText presentations, and research in art education.

**ARED495 STUDENT TEACHING:  
ART 12 sem. hrs.**

Culminating experience for art education majors or BFA majors with teacher certification coordinated and supervised by Art Department faculty. This student teaching assignment provides the opportunity for the student to display competency in middle and secondary programs in public schools under the direct, daily supervision of a qualified cooperating art teacher. Prerequisite: **ARED475** and **Teacher Candidacy**.

**ARED496 ART EDUCATION  
INTERNSHIP 12 sem. hrs.**

This course is a culminating experience for art education majors who are not seeking teacher certification. It is an alternative to student teaching for students interested in career experience in fields such as arts administration, art therapy, and museum education. Students must apply for a placement in the field. Prerequisite: **ARED475**.

**ARED519 ARTS AND CRAFTS FOR  
EXCEPTIONAL  
CHILDREN 3 sem. hrs.**

The general objectives for methods in art are reviewed and studied in relation to the needs of special education students in order to gain insight into how best to have meaningful activities in art for the various types of exceptional children. (The Special Education Department is frequently consulted in order that the course might best accomplish its purpose.)

**ARHI105 OVERVIEW OF WESTERN  
ART HISTORY 3 sem. hrs.**

This course is an introduction and general survey of art and artists from Pre-historic times through the 20th century. Students will examine major periods and styles which have contributed to Western art through the use of slides, videos and films in coordination with the lectures. This course is approved for General Education – Core 1.

**ARHI207 OVERVIEW OF NON-  
WESTERN ART HISTORY 3 sem. hrs.**

This course introduces students to non-western artistic cultures: Islam, India, China, Japan, and Sub-Saharan Africa. Each culture will be examined with an emphasis on major works of architecture, painting, sculpture, and the applied arts. Important historical, religious, and intercultural developments will illustrate strong artistic connections between these cultures and Western Art. This course is approved for General Education – Core 1.

**ARHI220 INTRODUCTION TO FILM  
AND VIDEO ART 3 sem. hrs.**

This course introduces film and video art as art media. Students will be provided with an historical overview from the beginning of film (c. 1885) and artists' video (c. 1963) to the present. The course will focus on the approaches to technical and aesthetic elements that have contributed to transforming craft into art. This course is approved for General Education – Distribution 1.

**ARHI322 HISTORY OF MODERN  
ARCHITECTURE  
(GROUP I) 3 sem. hrs.**

A survey of stylistic developments in 20th century architecture.

**ARHI323 ART OF THE 20TH  
CENTURY (GROUP I) 3 sem. hrs.**

A survey of painting and sculpture from 1900 with special emphasis given to the development of art styles. The purpose of this course is to provide an overview of significant artists and art movements of the twentieth century.

**ARHI324 THE ART OF THE 19<sup>TH</sup>  
CENTURY (GROUP I) 3 sem. hrs.**

A survey of painting and sculpture from the French Revolution to 1900 stressing the major artists and styles from Neo-Classicism to Art Nouveau.

**ARHI330 THE ART AND  
ARCHITECTURE OF  
LATIN AMERICAN 3 sem. hrs.**

This course surveys the art and architecture of Latin America from the colonial period to the contemporary era. It specifically emphasizes the historical chronology, cultural context and stylistic developments in painting, sculpture, architecture and other art forms in a range of Latin American countries. Special attention is given to the major artists and art movements, as well as the social, political and economic events that have shaped and influenced Latin American art and architecture. General Education – Distribution 1.

**ARHI331 BAROQUE ART OF THE  
17TH CENTURY (GROUP II) 3 sem. hrs.**

A survey of the art and architecture of the 17th century in Western Europe and the Americas stressing major art styles and figures of the period.

**ARHI332 THE ART OF THE  
RENAISSANCE (GROUP II) 3 sem. hrs.**

A selective survey of the art and architecture produced in Western Europe countries between 1400 and 1600, with emphasis on Italy and Flanders.

**ARHI333 THE ART OF THE 18TH  
CENTURY (GROUP II) 3 sem. hrs.**

A survey of the art and architecture of the 18th century in Western Europe with special attention given to the Rococo style and the early beginnings of Romantic and Neo-Classical Art.

**ARHI335 HISTORY OF  
ADVERTISING 3 sem. hrs.**

This course is a survey of advertising from ancient times through the English language influence of the 17th century and the fast pace of the 18th and 19th centuries in Britain and America to the 20th century. Students will focus on 20th century advertising particularly American classics, "subliminal" techniques, and radio and television ad types and techniques, ratings, and classic/award-winning examples. This course is approved for General Education – Distribution 1.

**ARHI341 CLASSICAL ART  
(GROUP III) 3 sem. hrs.**

A historical survey of the art and architecture of the ancient civilizations of Greece and Rome. This course will familiarize the student with how, developing from earlier cultures, the Greeks and Romans created an artistic and engineering vocabulary of such a refinement and practicality that is still in use today.

**ARHI342 THE ART OF ANCIENT  
CIVILIZATIONS  
(GROUP III) 3 sem. hrs.**

A survey of the art and architecture of the ancient Near East: Egypt from earliest times to the Roman Era, the Hittite Empire, Mesopotamia from Sumeria to the late Persian Era, the ancient Aegean cultures, and the Etruscans. This course will give the student an understanding of artistic development in the first true civilizations in the West, and how this art reflected and enhanced these cultures.

**ARHI344 MEDIEVAL ART  
(GROUP III) 3 sem. hrs.**

A selective survey of the art and architecture produced in the Western world during the Middle Ages focusing upon the Early Christian, Byzantine, Romanesque and Gothic styles.

**ARHI420 HISTORY OF AMERICAN  
ART I (GROUP IV) 3 sem. hrs.**

A survey of American art and architecture from Colonial times to 1850.

**ARHI421 HISTORY OF AMERICAN  
ART II (GROUP IV) 3 sem. hrs.**

A survey of American art and architecture concentrating on the period from the Civil War to World War II.

**ARHI423 THE ART OF THE FAR EAST (GROUP IV)**  
3 sem. hrs.

A historical survey of the art and architecture of the civilizations of the Far East stretching to those of China, Japan, and others. Special emphasis is placed upon the selected periods of Chinese and Japanese art and architecture relative to their aesthetics and philosophies.

**ARHI425 PRE-COLUMBIAN ART OF THE AMERICAS (GROUP IV)**  
3 sem. hrs.

A historical survey of the art and architecture of the ancient civilizations of the Americas focusing upon those of the Incas, Mayans, and Aztecs. This course will provide a general survey of the arts and crafts of these three cultures, with historical events emphasized as catalysts in stylistic change and development.

**ARHI430 INTRODUCTION TO ART CRITICISM**  
3 sem. hrs.

An introductory course in art criticism concerned with problems which arise in connection with the judgment and evaluation of art works by the critic; an examination of the language used to speak and write about works of art; a study of post-Hegelian schools of criticism.

**ARHI440 ART HISTORY SEMINAR**  
3 sem. hrs.

Several seminars in Art History are available. Each seminar involves an in-depth study of a specialized area. The purpose of the seminar is to allow capable students an opportunity to experience a specific aspect or period of art history with greater intensity than in a survey course.

**ARHI441 THE HISTORY OF WOMEN IN ART**  
3 sem. hrs.

This course surveys the history of women in the visual arts. The student will study the contributions women made during all of the major art movements in history, including studies of work in Asia, Africa, and South America. Prerequisites: ENGL102; ARHI105 or WMST204, OR permission of the instructor.

**ARHI458 CONTEMPORARY ART**  
3 sem. hrs.

This course examines the history of the visual arts from 1980 to the present. It addresses the rise of postmodernism, globalization, and the role technology plays in the evolution of new art forms. Prerequisites: ARHI105 and ARHI323 or permission of instructor.

**ARHI525 NEW MEDIA IN ART**  
3 sem. hrs.

This course provides an introduction to the definitions, historical roots, theoretical underpinnings, and basic elements of the field of Art Therapy. Course topics will include an examination of the major contributors to

the field, what Art Therapists do, where Art Therapists work, how art-making can be used to affect behavioral, and emotional changes.

**ARHI531 ART AND SOCIETY**  
3 sem. hrs.

The course is designed to encourage students to understand the interaction between art and society. Among topics to be discussed are the social meaning of art, institutionalization of art, art market politics, social position of the artist, social structure and style changes, art and mass culture, music and film as purveyors of social change.

**ARHI533 TWENTIETH CENTURY AESTHETICS (\*\*)**  
3 sem. hrs.

This course provides an investigation of new directions in twentieth century aesthetics and how they relate to the artist, the art objective/event, and the spectator. Questions will be raised concerning aesthetics and language, changing views on art and emotion, organic unity, and aesthetic value where art is seen as autonomous and as a self-rewarding activity.

**ARHI534 ART CRITICISM IN THE TWENTIETH CENTURY (\*\*)**  
3 sem. hrs.

This course provides a study of theories and schools of art criticism which have emerged during the twentieth century. Theories include Formalism and Structuralism in addition to Psychoanalytic, Marxist, and Semiotic approaches.

**ARHI535 ART IN REVOLUTION**  
3 sem. hrs.

An overview of the most important "anti-establishment" artistic movements of the late 18th and the 19th centuries. Romanticism, the Pre-Raphaelites, Impressionism, Post Impressionism and Symbolism will be contrasted with Neo-Classicism and the Academism with a view to clarify the formal, social, and political liberation of the artist in our own time.

**ARHI536 THE ART AND ARCHITECTURE OF ENGLAND**  
3 sem. hrs.

This course surveys painting, sculpture and architecture of Great Britain from the Neolithic period through the nineteenth century. It emphasizes historical context, stylistic development, and the evolution of aesthetic criticism. Prerequisite: permission of the instructor. This course is approved for General Education – Distribution 1.

**ARHI537 ART OF INDIA**  
3 sem. hrs.

The course acquaints students with the history of the art and architecture of India from prehistoric through modern times. It specifically emphasizes the chronological development of artistic styles relative to Indian religion, society, and aesthetics. Prerequisite: ARHI107.

**ARHI540 EXPERIMENTAL FILM, THE VISUAL ARTS AND CONTEMPORARY THEORY**  
3 sem. hrs.

This course will explore films whose form and content overlap with concerns explored by visual artists. The relationship between particular films and contemporary art and film theory will also be discussed. Examples of animation and video will also be included.

**ARHI541 THE HISTORY OF WOMEN IN ART**  
3 sem. hrs.

This course surveys the history of women in the visual arts. The course recognizes linkages between the artists and their male peers, and considers the influences of culture on their work. Students become acquainted with significant women whose activities as patrons, curators, or collectors also impacted the history of art.

**ARHI550 TOPICS IN AMERICAN ART**  
3 sem. hr.

This is essentially a course in which students select an aspect of American art history for their own individual investigation. The entire range of American Art – painting, sculpture, crafts, photography, and architecture – is open to student inquiry. Class meetings will involve discussion of individual investigations. Oral communication and written papers will be bases for student evaluation.

**ARHI552 ART OF THE PHARAOHS**  
3 sem. hrs.

This course is designed to familiarize the student with the development of the art in ancient Egypt, beginning with prehistoric Egypt, and concluding with Coptic Art. Sculpture, architecture and painting, jewelry and other crafts will be seen both as art and as reflections of the politico-religious eras that produced them. The modern re-discovery of Egypt by the West, and the growth of Egyptology will also be discussed. Prerequisite: ARHI105.

**ARHI556 HISTORY OF EARLY 20<sup>th</sup> CENTURY ART**  
3 sem. hrs.

This course surveys important historical trailmarks of 19th century art and tradition-breaking and controversial developments in painting and sculpture during the first half of the 20th century, the original era of modern art. The students will focus on the major art styles, movements, and artists in Europe and the strong contributions of the United States and Russia. This course is approved for General Education – Distribution 1.

**ARHI557 LATE 20TH CENTURY ART**  
3 sem. hrs.

A survey of painting and sculpture from C. 1945 to the present. Attention is given to selected art styles and individual artists and to

the theoretical basis of twentieth century art. Particular emphasis is placed on developments in the United States.

**ARHI558 CONTEMPORARY ART**  
3 sem. hrs.

This course examines the history of the visual arts from 1980 to the present. It addresses the rise of postmodernism, internationalism, and the role technology plays in the evolution of new art forms.

**ARHI560 HISTORY OF PHOTOGRAPHY**  
3 sem. hrs.

This course surveys important historical developments in 19th and 20th century photography and tradition-making developments of the 19th century, as well as tradition-breaking developments of the 20th century. It covers major movements in photography and the linkages between photography and other art styles of the 19th and 20th centuries. It also considers influences of history and culture. Prerequisite: **ARHI105**.

**ARHI570 WORKSHOP IN THE SOURCES OF IMAGERY**  
3 sem. hrs.

This course acquaints students with the major sources of imagery identifiable in painting, sculpture, prints, and the decorative arts, from antiquity through the twentieth century. It emphasizes the differing pictorial ideas, devices, and conventions invented by both western and non-western artists to express specific types of iconography. Prerequisite: **ARHI105**

**ARHI571 HISTORY OF WESTERN SCULPTURE** 3 sem. hrs.

This course acquaints students with sculptural techniques and practices. It emphasizes stylistic evolution, formal analysis, and iconography, while stressing the innovative contributions of specific artists who altered the course of historical development. Prerequisite: **ARHI105**.

**ART101 TWO-DIMENSIONAL DESIGN** 3 sem. hrs.

A course dealing with basic aspects of pictorial form. Two-Dimensional Design provides the student with a visual language for developing works of art. Problems challenge the student to deal imaginatively with the visual elements. Slides, books, and other aids are used to give the student historical information and offer insight into various problem-solving possibilities.

**ART102 THREE-DIMENSIONAL DESIGN** 3 sem. hrs.

This course is planned to introduce the student to concepts and basic principles of designing in space and to develop his awareness of the problems and sensitivity to designing with materials.

**ART103 FOUR-DIMENSIONAL DESIGN** 1.5 sem. hrs.

This course introduces concepts and basic principles of designing in time and develops an awareness of time-based problems and a sensitivity to the tools of time-based media, including video editing software.

**ART105 COLOR** 1.5 sem. hrs.

This course presents students with a foundational overview of color for the visual artist. Basic color theory will be addressed, as will the applications of color across a variety of traditional and digital mediums.

**ART106 DRAWING I** 3 sem. hrs.

Students work mainly from the nude figure with primary emphasis on the development of perception. Fundamental areas stressed are figure proportion, composition, perspective, light, and shade.

**ART107 DRAWING II** 3 sem. hrs.

This course provides a continued introduction to basic drawing problems and principles with a broader exploration of media, process, and subject matter. Increased study of both historical and contemporary artists and images provide for further discussion of fundamental drawing issues. The creative uses of various media and tools, both traditional and digital, will be explored. Prerequisite: **ART106 Drawing I**.

**ART211 METALS I** 3 sem. hrs.

This is an introductory course in designing and fabricating jewelry and metal objects. Students will develop personal, creative work through the exploration of various techniques that includes soldering, sawing, cold joining, forming, forging and finishing. Criticism and analysis of metalwork will be learned through formal critiques and study of historical and contemporary works. Prerequisites: **ART102**

**ART215 METALS II** 3 sem. hrs.

This course builds upon the skills and concepts introduced in Metals I. Students continue to develop their individual expertise and expression through the creation of jewelry and metal objects, both functional and sculptural. This course will cover metals techniques such as mold making, wax working, centrifugal and gravity casting, stone setting, chain making, surface embellishments and the use of alternative materials. Historic and current trends in metalwork are examined to give a basis for aesthetic ideas and criticism. Prerequisite: **ART211**

**ART216 CERAMICS I** 3 sem. hrs.

This course introduces ceramic hand-building and wheel-throwing techniques. Both creativity and craftsmanship will be addressed in each assignment. High-fire and low temperature glazing processes will be

employed as students learn to load gas and electric kilns. Students study examples of historical and contemporary ceramic art as they learn to express aesthetic ideas in their own creative work.

**ART217 CERAMICS II** 3 sem. hrs.

This course broadens students' understanding of the basic principles of ceramic practice and develops individual expertise in clay. Students learn to formulate and mix their own clay bodies and glazes, and fire various types of gas and electric kilns. Historical and contemporary ceramics are examined to demonstrate aesthetic concepts and to provide a basis for criticism in ceramics. Prerequisites: **ART216** or permission of the instructor.

**ART221 PRINTMAKING I**  
3 sem. hrs.

An introductory course designed to explore and practice the techniques, processes, methods, and materials in printmaking, covering lithography, intaglio, relief and/or screen printing at the discretion of the instructor. Images as an art expression will also be explored and studied. Prerequisite: **ART106** and **ART101**.

**ART226 SCULPTURE I** 3 sem. hrs.

Exploration in three dimensional form through the use of various materials, methods, and approaches. Emphasis on individual initiative in both the development and the execution of sculptural problems. Prerequisite: **ART102**.

**ART227 SCULPTURE II** 3 sem. hrs.

Studio concentration in developing, intensifying, and enhancing expressional processes as they relate to sculpture. Emphasis on individual initiative in both the development and the execution of sculptural problems. The scope of materials and techniques will be extensive ranging from some of the conventional sculptural media to the most recent materials and techniques. Prerequisite: **ART226**.

**ART231 PAINTING I** 3 sem. hrs.

A beginning course in the fundamental concepts and competencies of painting. Primary emphasis is on composition and the creation of form. Work with figure and natural objects, etc. Prerequisite: **ART106**, **ART107**, and **ART101**.

**ART232 PAINTING II** 3 sem. hrs.

A continuation of **ART231**. Emphasis will be on creating and controlling pictorial space and form and their relationship to composition. Exercises and concepts determined by the instructor. Prerequisite **ART231**.

**ART236 WOOD FURNITURE I**  
3 sem. hrs.

This course introduces wood as a material to develop one's personal creativity and three-

dimensional design sensibility in regard to furniture. Methods of woodworking are investigated, including the use of hand tools, portable power equipment, stationary machinery, and modes of finishing. Consideration is given to the role of furniture and wooden objects historically, functionally, and conceptually. Students design and build projects with an emphasis on creativity, craftsmanship, and their ability to problem solve. Prerequisite: **ART102**.

**ART237 WOOD FURNITURE II**  
3 sem. hrs.

This course builds upon the skills and techniques covered in Wood Furniture I. Students are encouraged to further develop their personal creativity and design sensibility, while broadening their technical knowledge. Specifically, this course focuses on the use and maintenance of hand tools, as well as types of joinery used in box and cabinet construction. Prerequisite: **ART236** or permission of the instructor.

**ART241 WEAVING AND FIBERS I**  
3 sem. hrs.

A basic course in the designing and executing of woven and knotted structures aimed at exploring a variety of yarn uses.

**ART242 WEAVING AND FIBERS II**  
3 sem. hrs.

A continuation of **ART241** in the use of the basic skills of weaving and fiber construction. Working with non-loom techniques will be explored. Prerequisite: **ART241** or permission of the instructor.

**ART249 COMPUTER ANIMATION I**  
3 sem. hrs.

This course introduces students to the many areas and aspects of computer animation. Students' model, surface, paint bump maps and displacement maps, light a CG environment, and learn to animate CG models, lights and cameras. Students are introduced to the group production environment. This course emphasizes the wide range of talents and disciplines within the CG animation field. This course is approved to fulfill the General Education designation of Computer Competency. Prerequisite: **ART106**.

**ART251 PHOTOGRAPHY I**  
3 sem. hrs.

Students learn the creative process of photography through exposure to the concepts and techniques necessary to produce high quality images and prints. Students also learn to understand the formal and conceptual structures of photographs and to expose, process, print, alter, and finish their photographs using professional standards. The course requires access to a manually operated film camera or a digital SLR camera.

**ART252 PHOTOGRAPHY II**  
3 sem. hrs.

This course continues the student's exploration of the creative process of photography. It covers traditional negative exposure and development, as well as archival-quality printing. Students explore the use of text with their images, multiple image techniques such as sequencing and montage, and the creation of digital books. Prerequisite: **ART251** or permission of the instructor.

**ART258 GRAPHIC DESIGN SOFTWARE**  
3 sem. hrs.

This course introduces industry standard graphic design software applications. It emphasizes word processing, digital illustration, image manipulation, and page layout. Projects stress the use of these programs as tools for learning the fundamentals and principles of design theory. Prerequisite/ Corequisite: **ART101** – 2 Dimensional Design. Approved for Computer Competency.

**ART265 SURVEY OF GRAPHIC DESIGN HISTORY, THEORY, AND CRITICISM**  
3 sem. hrs.

This course surveys graphic design history, theory, and criticism. It provides an understanding of contemporary issues in design, discusses important historical movements, and culminates with debates regarding the future of the field.

**ART267 FILM AND VIDEO PRODUCTION I**  
3 sem. hrs.

The emphasis of the course is on film and video as creative art media and the creative process as essential to analytical thinking and expression. The course examines historical and aesthetic approaches of the media based on twentieth century art. It offers individual experiences in film and video production. This course is approved for General Education designation of Computer Competency.

**ART268 BEGINNING ANIMATION**  
3 sem. hrs.

This introductory production course in basic animation techniques includes a historical overview related to current animation trends in education, industry, entertainment and independent/experimental production. It allows practical aesthetic and technical experiences in the fundamental principles and physics of motion. This class provides an analysis of action and basic physical laws through the study of movement and time. It serves as a foundation for all subsequent animation courses. This course is approved to fulfill the General Education designation of Computer Competency. Prerequisite: **ART106**.

**ART301 PRINCIPLES OF GRAPHIC DESIGN**  
3 sem. hrs.

This course builds on the principles of graphic design and provides an overview of design theory, typographic principles, integration of type and image, and basic studio skills and continued exploration in professional software. Assignments will stimulate the application of creative thinking to solve problems in graphic design. Prerequisites: **ART 101, ART 102, ART 103, ART 105, ART 107, ART 258**.

**ART302 CONTEMPORARY ABSTRACTION**  
3 sem. hrs.

Students taking this course will explore a range of motivations and strategies for producing abstract art. They will investigate issues that concern today's abstractionists and learn strategies to help them develop more personal and relevant abstract images. Prerequisites: **ART231**.

**ART303 ILLUSTRATION I**  
3 sem. hrs.

This course develops students' skills in visual conceptualization. Projects emphasize the development of creative attitudes and solutions to illustration problems through practical studio procedures and offers students the opportunity to experience diverse areas of illustration. Prerequisites: **ART101, ART102, ART103, ART105, ART107, ART258**.

**ART305 TYPOGRAPHY I**  
3 sem. hrs.

This course develops students' aesthetic sensitivity and typographic awareness. Projects emphasize typographic design solutions, typographic vocabulary, recognition of typographic styles, typefaces, history, fundamentals of typography, typography as a compositional element, the development of conceptual content, and exploring the potential communicative characteristics of type. Prerequisite: **ART 258 Graphic Design Software**.

**ART307 INTERMEDIATE DRAWING**  
3-6 sem. hrs.

Students pursue solutions to class problems and develop personal goals in conjunction with the continuing development of fundamentals. Prerequisite: **ART106** and **ART107**.

**ART313 SCULPTURE TOPIC- METAL CASTING**  
3 sem. hrs.

Students will utilize traditional and contemporary mold-making casting processes to create sculptures of aluminum and bronze. Prerequisites: **ART 226** or permission of instructor.



**ART315 INTERMEDIATE CERAMICS 3 sem. hrs.**

This course builds upon the established interests and expertise of the intermediate level student. Incoming students are expected to have a technical understanding of the basic principles of ceramic practice as they are encouraged to develop a personal artistic direction. Formal analysis of their work occurs in group and individual critiques. Prerequisites: **ART216** and **ART217** or permission of the instructor.

**ART316 TYPOGRAPHY II 3 sem. hrs.**

This course expands typographic principles and mechanics. It introduces contemporary typographic theories, and the designers whose practice exemplify theoretical approaches. Projects explore typographic applications including conceptual and expressive typography, alternative typography, typographic sequence in book design, editorial design, series continuity in book jacket design, and the use of typography in packaging. Prerequisite: **ART 304 Principles of Graphic Design**, **ART 305 Typography I**.

**ART319 INTERMEDIATE METALS 3-6 sem. hrs.**

This course builds upon the skills and aesthetic development established in Metals I and II. Metalsmithing skills such as raising, die-forming, chasing, repousse, and forging will enable the student to further understand the physical manipulation and characteristics of metal. Students are encouraged to develop both a personal artistic direction in their work and a critical dialogue about the medium. Prerequisite: **ART215**

**ART321 SCREEN PRINTING I 3 sem. hrs.**

Screen printing will be the sole concern of this course with emphasis on developing the skill and concept to be able to produce a more individual image. Prerequisite: **ART221**.

**ART322 LITHOGRAPHY I 3 sem. hrs.**

Lithography will be the basic study and sole concern of this course with emphasis on skill to develop and produce a more individual image. Prerequisite: **ART221**.

**ART323 INTAGLIO I 3 sem. hrs.**  
Intaglio will be the basic study and sole concern of this course with emphasis on skill to develop and produce a more individual image. Prerequisite: **ART221**.

**ART324 RELIEF I 3 sem. hrs.**  
Relief will be the basic study and sole concern of this course with emphasis on skill to develop and produce a more individual image. Prerequisite: **ART221**.

**ART325 INTERMEDIATE PRINTMAKING 3-6 sem. hrs.**

This course is a continuation of the technical issues and aesthetic development that is begun in Printmaking I. The focus of this course is to develop in the student further control over the formal and conceptual components of image making in print. The student works with the instructor to develop a plan of study and works toward more developed and refined imagery and individual expression in print mediums. The printmaking mediums covered may include: lithography, photo lithography, screen print, intaglio, relief, letterpress, book arts or other forms. Prerequisite: **ART221**.

**ART326 INTERACTIVE DESIGN I 3 sem. hrs.**

This course introduces the web site/user experience, design, construction, and implementation of web sites. It stresses the fundamentals of current web languages and uses industry-standard software applications to design, create, and launch web sites. Prerequisites: **ART 304 Principles of Graphic Design**, **ART 305 Typography I**.

**ART327 CORPORATE IDENTITY 3 sem. hrs.**

This course expands student's knowledge of corporate identity design. Students study historical and contemporary logo design, conceptual image making, and branding. Projects include logo design, corporate identity systems, and various collateral materials. Prerequisites: **ART310 – Typography II**

**ART328 INTERPRETING THE FIGURE 3 sem. hrs.**

This course focuses on using the figure as the primary source for formulating content in each student's work. Students will explore ways in which the figure can be used to express ideas and emotion. Prerequisites: **ART107**

**ART329 PHOTO-LITHOGRAPHY 3 sem. hrs.**

This course will explore through lecture and demonstration the history, processes, techniques and materials of photo-lithography. The ability of photo-lithography to incorporate and combine hand drawn, digital and photographic image making methods in the development of fine art prints will be explored. This course is structured as a studio fine art course that is an extension of the aesthetics and concerns developed in **ART221**. Prerequisite: **ART221**.

**ART335 INTERMEDIATE PAINTING 3-6 sem. hrs.**

This course provides for an examination by the student of concepts of space, light and shade, color and composition through the student's direct observation of subject matter and through lectures by the instructor. Prerequisite: **ART231** and **ART232**.

**ART336 INTERPRETING THE LANDSCAPE 3 sem. hrs.**

Students will be working largely outdoors and on-site to create paintings and drawings of the landscape. Emphasis will be on the "plain air" experience. Additional coursework will involve developing images in the studio working from sketches and photographs made on-site. Students are strongly encouraged to have access to dependable transportation. Prerequisite: **ART307** and **ART231**.

**ART338 INTERMEDIATE WOOD FURNITURE 3 sem. hrs.**

This course is intended as a continuation of and expansion upon the skills and techniques covered in Wood Furniture I and II. Students are encouraged to further develop their personal creativity and design sensibility, while broadening their technical knowledge. Specifically, this course focuses on the methods of designing and constructing furniture used for seating, including bending wood, the ergonomics of chair design, and basic upholstery. Prerequisites: **ART236**, **ART237**.

**ART341 DIGITAL DRAWING AND PAINTING 3 sem. hrs.**

This course is an introduction to digital drawing and painting hardware, software, techniques, and applications in fine art and applied art/illustrations settings. Students will learn digital drawing techniques and paint applications, transparencies, platforms, layers, and execute "drawing" and "painting" in the same way they would in a traditional media class. In addition to undergraduate requirements, graduate students will be expected to integrate course content into their ongoing studio production. Prerequisites: **ART107 Drawing II**

**ART342 MEDIA AND TECHNIQUES 3 sem. hrs.**

This course familiarizes students with a broad array of traditional drawing and painting media and technical methods, including their historical origins. It provides students with the means to apply them competently through demonstrations, research, and directed assignments. An important objective of this course is to foster a deep appreciation for the physical properties of various media and a solid foundation for exploring their full potential. Prerequisites: **ART101**, **ART105**, **ART107**

**ART344 INTERMEDIATE WEAVING AND FIBERS 3-6 sem. hrs.**

A continuation in the use of the basic skills of weaving and fiber construction. Additional emphasis on the use of advanced loom techniques and fiber preparation. Prerequisite: **ART241** and **ART242** or permission of the instructor.

**ART345 COLOR FOR PAINTERS****3 sem. hrs.**

This course will examine the theoretical and practical roles of color in painting. It will review pigments, their historical treatment and current development, and will examine the evolution of color models created to govern their usage. Through lab exercises students will examine how pigments are used to make paint and the methods used in its application. The color theory presented in lectures will be practically applied through a series of directed studio projects. The course will employ lectures, slide and PowerPoint presentations, assigned readings, and hands-on projects and studio assignments to build color literacy for painters. Prerequisite: **ART231**.

**ART348 COMPUTER****ANIMATION II 3 sem. hrs.**

This course builds on the principles and knowledge gained in Computer Animation I. Students learn organic modeling techniques, basic rigging skills and intermediate compositing techniques. Students will continue to develop interpersonal communication and leadership skills while working in a group environment. Students will work on a short group film project and several individual modeling and animation project. Prerequisite: **ART101, ART102, ART103, ART105, ART107 and ART249**.

**ART349 COMPUTER ANIMATION III****3 sem. hrs.**

This course expands work in 3D computer modeling and animation. It introduces the use of bones and builds on previous rigging knowledge to include Sliders and other motion effectors and modifiers. Advanced surfacing and special effects work through group computer animation projects, and a detailed modeling project. Prerequisite: **ART348 and ART353**.

**ART351 INTERMEDIATE PHOTOGRAPHY I****3 sem. hrs.**

Students will explore the field of documentary photography. They will undertake an in-depth exploration of the meanings and uses of color in photography. They will continue learning basic skills and concepts in photography through the use in traditional and/or digital cameras, refinement of digital imaging techniques, and in the production of fine, professional quality digital prints. Prerequisites: **ART251 Photography I, ART 252 Photography II**, and permission of instructor.

**ART352 INTERMEDIATE PHOTOGRAPHY II****3 sem. hrs.**

The student will continue study of material covered in Intermediate Photography I, refining color and digital photography

techniques. Technical lighting problems will be introduced. The layering of multiple images digitally will be explored. The student will learn to work through a complete subject by working on a portfolio of images. Prerequisite: **ART351** and permission of the instructor.

**ART353 ANIMATION II 3 sem. hrs.**

This course is a continuation of Animation I. It refines and develops the fundamental principles and physics of motion and applies them in context. Students will identify and resolve problems that arise in time-based media as a study of emotional expression. This will provide a foundational knowledge of the fundamentals of acting and performance in animation. Prerequisite: **ART101, ART102, ART103, ART105, ART107 and ART268**.

**ART354 ANIMATION III 3 sem. hrs.**

This course is a continuation of Animation I and II. It seeks to advance students' knowledge in cinematic design and execution to better understand animation as applied to performance, emotion, and believability. Students will be encouraged to think of themselves as filmmakers through the understanding and appreciation of cinematic language and technique. The fundamentals of acting and performance in animation will be expanded upon and provided with an emotional context. Prerequisites: **ART353 Animation II**.

**ART355 INTRODUCTION TO DIGITAL PHOTOGRAPHY 3 sem. hrs.**

This course provides students with a grounding in the field of digital image making. It assumes a basic knowledge of photography, Macintosh computers and computer software. Prerequisites: **ART251** or permission of the instructor.

**ART358 INTRO TO COMP GRAPH SOFTWARE 3 sem. hrs.**

This course introduces the computer for solving problems in graphic design. Projects emphasize technical application and creative thinking as applied to solving two dimensional graphic design problems. Prerequisite: **ART256**.

**ART367 FILM AND VIDEO PRODUCTION II 3-6 sem. hrs.**

This course continues Film and Video Production I with increased emphasis on independent work and growth. It offers continued creative production experiences in interpretive lighting, dramatic composition, graphic design, creative editing, sculptural concerns, computer-generated imagery, and conceptual art. Students produce art work in film, video, and/or computer. Prerequisite: **ART267**.

**ART370 FILM AND VIDEO PRODUCTION III****3 sem. hrs.**

This course is a continuation of Film & Video Production I and II. This course emphasizes the importance of graphics, editing and motion graphic disciplines within cinematography. Students will work with post production techniques including special effects, sound recording, computer generated images and animation. Students will also begin thinking about promoting their work, and creating materials to sell themselves to future employers. Prerequisites: **ART367 Film and Video Production II**.

**ART 372 SCIENTIFIC ILLUSTRATION****3-6 sem. hrs.**

This course will serve as a broad functional introduction to the complex field of scientific illustration. Students will be provided with a thorough survey of its history and major practitioners, the wide range of its subject and common techniques, and the research skills necessary for success in this field. Students will leave this class having had in-depth exposure to four chosen subjects, and four commonly used techniques. Prerequisites: **ART106 and ART107**, or permission of the instructor.

**ART377 INTERMEDIATE SCULPTURE 3-6 sem. hrs.**

Studio concentration in developing, intensifying and enhancing expressional processes as they relate to sculpture. Emphasis on individual initiative in both the development and execution of sculptural problems. The scope of materials and techniques will be extensive, ranging from some of the conventional sculptural media to the most recent materials and techniques. Out of class research is required. Prerequisite: **ART226 and ART227**.

**ART393 ILLUSTRATION II****3 sem. hrs.**

This course stimulates innovative visual solutions and expands students' ability to master advanced illustration techniques. Projects help develop creative attitudes and professional work habits while solving assignments in book, editorial, technical and advertisement illustration. Prerequisite:

**ART395 PROFESSIONAL PRACTICES FOR STUDIO ARTS 3 sem. hrs.**

This studio course will provide professional planning and preparation, image documentation, and portfolio management skills specific to the needs of studio artists. Career paths available to studio artists, strategies to achieve goals, and website maintenance will be covered. This course can be taken for the Computer Competency requirement. Prerequisites: Student must be received candidacy in their studio arts concentration.

**ART400      ADVANCED  
COMPOSITING AND  
VISUAL FXS      3 sem. hrs.**

This course builds on the foundational skills students have already mastered and explores more complex compositing and visual FX techniques. Masks, pre-compositing, motion tracking, 3D FX and particles will be covered. Students will design and produce final images based on 'real world' situations. Students will produce five minor and two major production-quality level projects to be included on their demo-reels. Prerequisite: **ART249, ART267, ART268 and any 300-level Cinema course.**

**ART401      ADVANCED RIGGING  
AND DYNAMICS  
3 sem. hrs.**

This course builds on the foundational skills students have already mastered and explores more complex rigging techniques and how to apply dynamics. Mechanical and organic rigs, 'hard body' and 'soft body' as well as particle and fluid dynamics will be covered. Students will research, analyze, and design fully functional and physically accurate rigs for both mechanical and organic models. Students will produce three major production-quality level projects. Prerequisites: **ART349 Computer Animation III.**

**ART402      STORYBOARDING AND  
CHARACTER DESIGN  
3 sem. hrs.**

This upper-level elective course is designed to equip students with the knowledge, skills and 'blue print' necessary to tell a compelling story. The course emphasis will be on aesthetic visualization, staging, composition, cinematic continuity, rhythm, timing and pacing. Character archetypes will be extensively studied through the internal analysis and biographical history that will convey the final design for Animation/Cinema production. Character design will be a main component within the narrative contents of various film genres. Prerequisites: **ART249, ART267, ART268 and any level 300-level course.**

**ART403      ALTERNATIVE  
PROCESSES IN  
ANIMATION      3 sem. hrs.**

This upper-level elective will impart advanced-level knowledge of and experience with specialized and unique processes of stop-motion and experimental animation. Students will come to understand and appreciate the value and aesthetic appeal of this very tactile process in today's world of computer-generated graphics. The history of these art forms will be guided through every step of their chosen technique, from idea to storyboard to lighting and camera considerations into animation and completion of their projects. Prerequisite: **ART249, ART267, ART268 and any 300-level Cinema course.**

**ART404      ADVANCED 3D  
SOFTWARE      3 sem. hrs.**

This course expands work in 3D computer modeling and animation. It introduces students to additional 3D modeling and animation software through lectures and practical demonstrations. It is expected that the student already possesses a solid background in 3D animation using LightWave. Students work on individual and group projects in modeling, texturing, animation and rendering. Prerequisite: **ART349 Computer Animation III.**

**ART405      ADVANCED FLASH  
ANIMATION      3 sem. hrs.**

This course introduces the fundamentals of Adobe Flash for character animation. It analyzes the 2D computer animation workflow and discusses the animation tools and techniques used specifically for Flash animation. It combines the concepts of traditional principles with modern 2D computer animating software to create production quality animation and vector-based graphics. Prerequisites: **ART249, ART267, ART268 and any 300-level Cinema course.**

**ART406      ADVANCED MODELING  
AND TEXTURING  
3 sem. hrs.**

This course builds on the fundamental skills students have already mastered and explores more complex modeling and texturing techniques. UV maps, nodal materials, fur/fibers, cloth and morph targets will be covered. Students will design and produce final images based on 'real world' situations. Students will produce several major production-quality level projects. Prerequisite: **ART349 Computer Animation III.**

**ART407      DOCUMENTARY FILM  
3 sem. hrs.**

A concentrated course designed to provide an overview of the production techniques, the history, and the aesthetics of documentary filmmaking. The purpose of this course is to develop an understanding of the documentary film aesthetic and illustrate a historical development from the films of Louis Lumiere to cinema-verite and the present. Students will apply historical models and techniques as they produce, shoot, and edit their own documentary films. Pre-requisites: **ART 249, ART 257, ART 268, and Candidacy in Cinema.**

**ART408      HUMAN HEAD –  
DRAWING AND PAINTING  
3 sem. hrs.**

This course is designed to provide the art student with an in-depth knowledge of the form and structure of the human head. The class will examine the skeletal and muscular structures in relation to the surface form of the head and neck, as well as the surface forms

which determine an accurate likeness. Students will work in a variety of mediums during the drawing segment of the course and in oil in the second half of the term. The class will work primarily from live models. Prerequisites: **ART107, ART232** or permission of the instructor.

**ART409      HUMAN ANATOMY  
DRAWING      3 sem. hrs.**

A course intended to provide the art student with a thorough visual knowledge of the anatomical structure of the human body through drawing. The course will combine lecture and lab (studio) experiences supplemented by a text book. The students will execute detailed drawings from skeletons, anatomy texts and charts, and from live models. The drawings will range from small studies to near life-size interpretations. The lectures will deal with clarification of visual human anatomy and will supplement the text book. Prerequisite: **ART106 and ART107** or permission of the instructor.

**ART410      ADVANCED DRAWING  
3-6-9-12 sem. hrs.**

The advanced student is encouraged to develop an individual direction through imagination, personal experimentation, and observation. Prerequisite: 3 hours **ART307.**

**ART411      EXPERIMENTAL FILM  
3 sem. hrs.**

This course covers the history and production of experimental film. This studio course is designed to explore the unique aesthetics and conventions of underground film as an important part of modern art history. Students will explore these conventions by producing their own non-narrative films. The purpose will be to relate the underground film to developments in other art areas, especially modern painting and sculpture and to illustrate the importance of the film genre as viable contemporary artistic medium. Prerequisites: **ART249, ART267, ART268 AND ANY 300-Level cinema course.**

**ART412      FILM AESTHETICS  
3 sem. hrs.**

This is a concentrated course in cinematography. The course explores the interrelationship of camera, lens, movement and lighting to live action films. Through practical exercise, discussions and viewing of films, the course seeks to evolve an understanding of how to visualize the words and Mise-en-Scene to screen. Prerequisite: **ART370 – Film & Video Production III and Candidacy.**

**ART413      ADVANCED  
ILLUSTRATION I  
3 sem. hrs.**

Through lectures and assignments, students will build a professional repertoire of illustration skills. Students will gain practical experience

and develop authentic personal styles and techniques. The course will also address the business of illustration, portfolio development and self-marketing. Prerequisites: ART393, and TWO of the following: ART309, ART328, ART336, ART341, ART342, ART345, ART372

**ART414 LIGHTING AND SOUND DESIGN 3 sem. hrs.**

This upper-level elective is designed to impart advanced-level knowledge in the realms of lighting design and sound design. Students will explore the technical and aesthetic considerations when crafting a lighting scheme for a scene or situation. Crafting light and shadow, textures and depth within a scene, mood and emotion, and even then not to light are all covered. Students will also learn the history of sound, and sound recording techniques using both traditional and digital methods. On-location and in-studio post-production techniques will also be covered. Prerequisites: ART269, ART267, ART268 and Candidacy in Cinema

**ART415 ACTION ANALYSIS FOR ANIMATION 3 sem. hrs.**

This advanced course will equip the animation student with the knowledge of capturing the human figure in motion. It will train the student to observe the visual kinesthetic analysis of weight distribution, line of action, balance, flexion and extension through space. It will emphasize the use of gesture, expression and vitality within a pose to describe a story. The figure will be sketched from a variety of angles and perspectives within a specified frame of time. Prerequisites: ART 249, ART 267, ART 268 and Candidacy in Cinema.

**ART416 KILN CONSTRUCTION 3 sem. hrs.**

This course is an introduction to methods of building kilns. Students will learn about various types of kiln, firing methods, refractories, insulation, fuels, burners, and calculating BTU requirements. Students will construct one or more kilns and learn to repair existing gas and electric kilns as needed. Prerequisites: ART216 Ceramics I, ART217 Ceramics II, or permission of the instructor.

**ART417 ADVANCED ILLUSTRATION II 3 sem. hrs.**

Students will continue to strengthen illustration approaches and deepen their understanding of visual storytelling in preparation for professional practice. Authentic personal styles and techniques are further developed along with more advanced concepts. Special attention is given to the business of illustration, portfolio development, and self-marketing. Prerequisites: ART413

**ART418 SPECIAL CERAMIC WORKSHOP 3 sem. hrs.**

This special topics course focuses on a specific area within the ceramics field. As with all studio art courses, technical and aesthetic aspects will be addressed in both lectures and critiques. The topic will address a current development in the ceramics field or an essential subject identified by the faculty. Prerequisites: ART216 Ceramics I, ART217 Ceramics II, or permission of the instructor.

**ART419 MOLD-MAKING IN CERAMICS 3 sem. hrs.**

This course provides students in-depth study of mold-making and slip-casting. Students will create functional pottery or ceramic sculpture. Topics include practical demonstration of: pattern and model making, various molds, clay modeling, mold alteration, casting, joining and altering of cast parts, glazing and firing. Design concepts, function, and the history of mold making and its use in the creation of contemporary art will be covered. Prerequisite: ART216, ART217, or permission of the instructor.

**ART421 THE FIGURE IN CERAMICS 3 sem. hrs.**

The purpose of this course is to provide students an opportunity for in-depth study of the human figure through the medium of fired ceramics. This class will explore the human form as a vehicle for making art. A variety of approaches to the representation of the figure will be employed. The history of the figure in clay and its place in contemporary art will be covered through lectures and readings. Prerequisites: ART216, ART217, or permission of the instructor.

**ART422 CERAMIC MATERIAL AND GLAZE CALCULATIONS 3 sem. hrs.**

This course is designed for the advanced student of ceramics and will examine the raw materials used in the ceramics field. Students will calculate, formulate, and fire clays, slips, and glazes at a variety of temperatures. Prerequisite: ART216, ART217 or permission of the instructor

**ART425 ADVANCED PRINTMAKING 3-6-9-12 sem. hrs.**

The course outlines for ART221 areas are to be used for this course. It is a continuation and intensification of those issues covered in ART325. Prerequisite: ART325.

**ART430 INTERACTIVE DESIGN II 3 sem. hrs.**

Students focus on three core aspects of Interactive Design: channeling the integration of visual design and logical coding,

manipulation of content management systems, and the introduction to web-based animation. Students research, concept, design, code, and implement designs from the ground up, integrating those designs into major content management systems. Prerequisites: ART326 Interactive I, ART327 Corporate Identity, ART431 Movements in Graphic Design.

**ART431 MOVEMENTS IN GRAPHIC DESIGN 3 sem. hrs.**

This course introduces students to the history of graphic design with emphasis on the twentieth and twenty-first centuries. Illustrated lectures, demonstrations, reading, discussion, and a variety of studio problems expose students to the movements responsible for shaping the character of contemporary graphic design. Prerequisites: ART 310 Typography II

**ART432 PUBLIC DESIGN 3 sem. hrs.**

This course emphasizes traditional and contemporary design strategies and prepares students to provide successful solutions to editorial, corporate and consumer publications. Students acquire a mastery of electronic file preparation, commercial printing processes, and develop an awareness of the designer/client relationship. Prerequisites: ART 327 Corporate Identity, ART 431 Movements in Graphic Design.

**ART433 INTERACTIVE DESIGN II 3 sem. hrs.**

This capstone level course expands upon intermediate principles and skills of interactive, website-based design, marketing, and animation. Students continue their in-depth exploration of in-demand programming languages, continuing proficiency and growth. It emphasizes a professional interactive design project for a real-world client. Prerequisite: ART327 Interactive II.

**ART434 PACKAGING DESIGN 3 sem. hrs.**

This course focuses on conceptually based three-dimensional package design and product graphics within the realm of identity and branding systems. Projects employ alternative materials and formats. It stresses consumer and client research, marketing techniques, and environmental concerns. Prerequisites: ART430 Corporate Identity

**ART438 ADVANCED WOOD FURNITURE 3-6-9-12 sem. hrs.**

The objective of this course is for the advanced student to further define and develop their personal design aesthetic, producing a cohesive body of work reflecting their interests as a furniture artist. The focus will

be on designing and building several furniture pieces reflecting a common theme; they could be perhaps for a specific purpose or location, or a design well suited for production. Students will be encouraged to investigate alternative methods and materials appropriate for use in their self-defined projects. Prerequisite: Successful completion of six semester hours in **ART338** or permission of the instructor.

**ART440      ADVANCED PAINTING**  
**3-6-9-12 sem. hrs.**

In this course, the student is encouraged to draw upon the instructor and other artists and their art in formulating personal goals and in developing the requisite knowledge and skill necessary for the successful realization of those goals. Prerequisite: three hours of **ART335**.

**ART445      ADVANCED WEAVING**  
**AND FIBERS**  
**3-6-9-12 sem. hrs.**

A continuation in the use of the basic skills of weaving and fibers construction with an additional emphasis on the development, by the student, of a personal point of view through the various processes and techniques of woven structures. Prerequisite: **ART344** or permission of the instructor.

**ART449      ADVANCED DIGITAL**  
**EDITING**      **3 sem. hrs.**

This course provides students with advanced, professional knowledge in the field of digital photography. It assumes a basic knowledge of digital cameras and image software. Recommended pre-requisite: **ART 252 Photography II**. Pre-requisite: **ART 251 Photography I**, or permission of instructor.

**ART451      ADVANCED**  
**PHOTOGRAPHY I**  
**3 sem. hrs.**

Students will study the major movements in photography, with an emphasis on contemporary issues and photography of the 20th century. Students will research master photographers and emulate the photographers' techniques and styles in photographs presented for critiques. Prerequisites: **ART251, ART252, ART351, ART352** and permission of the instructor.

**ART452      ADVANCED**  
**PHOTOGRAPHY II**  
**3 sem. hrs.**

The student will refine knowledge of material covered in all previous photography classes, constructing a final portfolio of images with appropriate supplementary materials. Prerequisites: **ART251, ART252, ART351, ART352, ART451** and permission of the instructor.

**ART462      COMPUTER ANIMATION**  
**IV**      **3 - 6 sem. hrs.**

This course expands work in 3D computer modeling and animation. It continues working with sound, advanced nodal surfacing and special effects work through lectures and practical demonstrations. Students work on a group computer animation project, a detailed modeling project, complete a digital portfolio and give a software demonstration. Prerequisite: **ART349 Computer Animation III**.

**ART466      ANIMATION IV**  
**3 - 6 sem. hrs.**

This course is a continuation of Animation I, II and III, and represents a culmination of our animation curricula. Students will be equipped with the skills and preparation to begin their professional careers in animation as well as the ability to produce thoughtful independent films. This course will challenge students to seek opportunities to explore a more philosophical and nonrepresentational approach, and encourage diverse career endeavors. Prerequisite: **ART354 Animation III**.

**ART467      ADVANCED FILM AND**  
**VIDEO PRODUCTION**  
**3 - 12 sem. hrs.**

This course in professional film, video and computer art production emphasizes double-system shooting, traditional and computer-based editing, computer-based sound mixing, special effects, title work, computer imaging, and electronic cinematography. Students produce major projects with film, video, and computer. Prerequisite: **ART367**.

**ART471      MARKETING**  
**TECHNIQUES**      **3 sem. hrs.**

This is a course designed to prepare an artist to market his art wholesale or retail. Business procedures, taxes, loans, and buyer presentations are investigated and practiced. Prerequisite: 3 hours of advanced art in any media or permission of the instructor.

**ART472      ADVANCED METALS**  
**3-6-9-12 sem. hrs.**

Advanced students will further define and develop their personal aesthetic while continuing to build their technical expertise. A series of experiences in advanced metalworking will allow the student to selectively study a variety of techniques such as: etching, inlay, tool making, raising, forming, enameling, granulation, mold making for multiples, advanced fabrication, etc. Formal analysis of work occurs in group and individual critiques. Prerequisite: Six credits of **ART319**.

**ART477      ADVANCED SCULPTURE**  
**3-6-9-12 sem. hrs.**

Extension of **ART377**. Prerequisite: **ART226** and **ART227**.

**ART480      ADVANCED CERAMICS**  
**3-6-9-12 sem. hrs.**

This course is designed to allow the advanced student an opportunity to work with an instructor in formulating and pursuing problems relating directly to his or her personal development as a ceramic artist/potter. Incoming students are expected to build upon the technical and aesthetic understanding of their chosen artistic direction. Formal analysis of their work occurs in group and individual critiques. Prerequisites: **ART216, ART217** and six credits of **ART315** or permission of the instructor.

**ART489      DESIGN PRACTICUM**  
**3-6-9-12 sem. hrs.**

Students gain experience with clients and design projects from regional non-profit agencies, campus offices, and organizations in a design studio environment. Comprehensive projects include, project briefs, assessment and planning, project budget and specifications, working with printers and web domains, and client management. Prerequisite: **ART432 – Publication Design**

**ART499      SENIOR PROJECTS IN**  
**GRAPHIC DESIGN**  
**3 sem. hrs.**

This course is a culminating experience for Graphic Design majors. Students develop an extensive design project, present a complete, professional portfolio, and produce a supporting self-promotional piece. A panel of faculty and regional professionals review the senior project, portfolio, and self-promotion. Prerequisite/Corequisite: **ART 489 Practicum**

**ART503      BOOK ARTS**      **3 sem. hrs.**

This course introduces book arts as a medium of creative expression. Lectures, demonstrations, and studio work will explore various approaches to book design. Studio exploration will focus on each student's area of experience. Diverse approaches to book design will be supported, including, graphic design, typography, photography, digital-imaging, painting, drawing, and printmaking. Prerequisites: **ART301** or **ART251** or **ART221** or **ART231**.

**ART508      ART STUDY-TRAVEL**  
**WORKSHOP**  
**3 or 6 sem. hrs.**

In this study/travel experience students and the professor travel to various centers of culture to study and experience at first hand the art and architecture of the culture. Prerequisites will depend upon the subject of the specific workshop.

**ART509      HUMAN ANATOMY II**  
**3 sem hrs.**

This is a continuation of the Human Anatomy Drawing course for students interested in

advanced study of the human form. Greater understanding of the anatomical substructures and a deeper investigation of how they affect surface form will be promoted along with greater conceptual and abstract thinking and more effective translation in pictorial terms. Prerequisite: **ART 409**.

**ART511 METAL ENAMELING WORKSHOP 3 sem. hrs.**

This is a workshop exploring the use of vitreous enamels as a supplemental surface treatment in metalwork. Primary emphasis will be placed on historical techniques: i.e., champlévé, plique-a-jour, and cloisonné. Prerequisite: **ART211** or permission of the instructor.

**ART516 CERAMIC KILNS AND EQUIPMENT CONSTRUCTION 3 sem. hrs.**

This course is designed for the advanced student of ceramics. Topics include practical and theoretical aspects of kiln building and kiln design. Construction of one or more kilns will be a major component of this course. Prerequisites: **ART216**, **ART217**, and **ART315** or permission of the instructor.

**ART517 CERAMIC MATERIALS AND GLAZE CALCULATION 3 sem. hrs.**

This course is designed for the advanced student of ceramics. The course will include the study of ceramic raw materials, the nature and properties of clay and non-clay materials used in pottery production and the calculation, formulation and firing of clay bodies, slips, engobes, and glazes. Prerequisites: **ART216** and **ART217**, or permission of the instructor.

**ART518 SPECIAL CERAMIC WORKSHOP 3 sem. hrs.**

This course is designed for the advanced student of ceramics. The course is a special offering that will focus on a specific area such as vapor glazing, Raku, primitive firing, photo emulsion or other current developments in the ceramics field.

**ART556 SPECIAL PHOTOGRAPHIC WORKSHOP 3-12 sem. hrs.**

This course covers such areas as photochemistry, advanced digital imaging, directorial techniques, documentary techniques, post-visualized techniques, contemporary theory, alternative processes, and specialized printing. Prerequisite: **ART252** or permission of the instructor.

**ART566 GALLERY MANAGEMENT 3 sem. hrs.**

This course is designed to acquaint the students with the operation of large and small institutional galleries. Gallery management entails the acquiring of exhibitions or designing of original exhibitions, installation of exhibitions and the processes of funding including packing, mailing contracts for shipping and dialogues with the artists or with the gallery involved in exhibiting. The course requires that students do some work and observation in each of the areas of operation.

**ART580 INTERNSHIP-BFA 6-15 sem. hrs.**

Designed for students who have shown sound visual or tactile concepts and technical proficiency within their major area and intend to function in a professional capacity within that discipline. Students electing this option will receive different aspects of practical training pertaining to advanced techniques and processes in a specific medium in an assigned professional situation subject to the student's needs and availability of a suitable opening. The learning experiences are jointly supervised and evaluated by a professional staff member of the faculty and a faculty advisor within the student's major discipline. Prerequisite: approval of the Art Department chairperson.

**ART580 INTERNSHIP IN (one of the following concentrations)\* 6-15 sem. hrs.**

**Ceramics, Cinema, Communications Graphics, Drawing, Jewelry/Metalsmithing, Painting, Photography, Printmaking, Sculpture, Weaving and Fibers, or Wood and Furniture Design**

*\*See catalog description of ART580 Internship – BFA.*

**- B -**

**BAIS495 INTERNSHIP IN INDIVIDUALIZED STUDIES 3-12 sem. hrs.**

This internship provides students the opportunity to apply, improve, and develop skills in a practical, on the job experience and enables students to apply concepts and theories to the work environment. The internship site will depend on the student's specific concentration in BAIS.

**BIOL100 INTRODUCTION TO BIOLOGY 3 sem. hrs.**

This course introduces students who are not majoring in the natural sciences to topics that are broadly relevant to all forms of living organisms: the chemistry of life; cell structures and functions; energy storage, retrieval, and use in cells; the actions of DNA; cell division

and life cycles; genetic inheritance; evolution; species formation; taxonomy; and ecology. This course is approved for General Education – Core 7.

**BIOL101 HUMAN BIOLOGY 3 sem. hrs.**

The foundations, principles, and processes of biology are taught as they are exemplified by or relate to the human organism. The structures, reactions, interrelationships, and malfunctions of human organs, systems, and processes are emphasized. Lecture and laboratory. This course is approved for General Education – Distribution 3.

**BIOL102 ENVIRONMENTAL BIOLOGY 3 sem. hrs.**

The characteristics and ecological relationships of the major groups of living organisms are considered. Emphasis is placed on organisms as members of populations and communities in relation to their environment and other organisms, rather than as isolated entities. Lecture and laboratory. This course is approved for General Education – Distribution 3

**BIOL104 INTRODUCTION TO HUMAN GENETICS 3 sem. hrs.**

This course introduces classical human heredity, population genetics concepts, molecular genetics, genetic counseling and recent research findings related to human diseases such as cystic fibrosis, Huntington's disease and cancer. The course provides a strong background for better understanding the ethical issues associated with the genetic manipulation of humans and other species. Lecture only. Open to nursing majors or by consent of instructor. Not available for credit to biology majors. This course is approved for General Education - Distribution 3.

**BIOL150 PRINCIPLES OF BIOLOGY 4 sem. hrs.**

This course introduces students to the principles of biology, primarily at the molecular and cellular levels. It emphasizes basic concepts such as the interrelation of form and function, energy economy in the biosphere, the continuity of living matter, and the maintenance of the steady state. Lecture and laboratory. This course is approved for General Education - Core 7.

**BIOL230 BOTANY 4 sem. hrs.**

This course is a continuation of BIOL150 with emphasis on taxonomic and evolutionary concepts. It considers the phylogenetic relationships and diversity of major taxa, including bacteria, algae, fungi, bryophytes and tracheophytes. Lecture and laboratory. Prerequisite: **BIOL150** or equivalent with a C or better. This course is approved for General Education – Distribution 3.

**BIOL240 ZOOLOGY 4 sem. hrs.**

In phylogenetic sequence, and at the various levels of organization, representatives of each major group of animals are studied as to their anatomy, physiology, origins, life histories, and habitats. Major emphasis is devoted to the invertebrate phyla, but coverage of the phylum Chordata is included. Lecture and laboratory. Prerequisite: **BIOL150** or equivalent with a C grade or better. This course is approved for General Education – Distribution 3.

**BIOL300 GENETICS 4 sem. hrs.**

This course examines the patterns of inheritance, molecular transmission of genetic information, and genetic variation within populations and its role in evolution. Laboratory exercises include inquiry based research, problem solving, and written reports. The course includes lecture and laboratory. Prerequisites: **BIOL 150** or the equivalent with a C grade or better, and **CHEM 140** or higher or permission of the instructor.

**BIOL302 HISTOLOGY 3 sem. hrs.**

A survey of the microscopic structure of Mammalian tissues and organs. Lectures will discuss the structure, function, and some pathology of the tissues and organs. In the laboratory, prepared microscopic slides will be studied in detail. In addition, the students will receive training in basic animal histological techniques. Prerequisite: **BIOL240**. 2 hours lecture, 3 hours lab.

**BIOL304 BIOLOGY OF AGING 3 sem. hrs.**

This course introduces students to biological aspects of aging in humans and other animals. The aging process is studied at the cellular and organismic levels in both healthy and disease states. Non-laboratory. Prerequisite: **BIOL101, 102, or 103**. This course is approved for General Education – Distribution 3.

**BIOL305 CELL AND MOLECULAR BIOLOGY 4 sem. hrs.**

This course will examine the structure and function of cellular organelles and the molecular basis for cellular processes such as cell signaling, cell growth and division and cell differentiation. The course will also integrate genetic and biochemical approaches to the study of DNA structure and gene expression. Laboratory exercises will include methods in the isolation and manipulation of subcellular components. Three hours lecture and three hours laboratory. Prerequisites: **BIOL150** and **CHEM141** or **CHEM241**.

**BIOL307 HISTORY OF BIOLOGY 3 sem. hrs.**

This course will survey the history of biology and medicine from ancient times to the mid-twentieth century, with special emphasis on the genesis of modern biological concepts and approaches in the nineteenth century. Genetics, evolution, and experimental medicine will be

considered using the works of Darwin, Mendel, Bernard, and others. Prerequisites: any of **BIOL100, BIOL101, BIOL102, BIOL150** or equivalent. This course is approved for General Education – Distribution 3.

**BIOL308 MICROBIOLOGY 4 sem. hrs.**

This course is an overview of the science of microbiology. Particular emphasis will be placed on the study of bacteria and their role in the natural world. Included in the course will be discussions of bacterial anatomy and physiology, growth, genetics, uses in biotechnology and the role of microorganisms in the environment. There will also be a brief discussion of non-bacterial microorganisms and viruses. Prerequisite: **CHEM141** or **CHEM241** or equivalent. **BIOL150** or **BIOL312** and **BIOL313**, with lab. 2 hours lecture, 4 hours lab.

**BIOL309 VERTEBRATE ZOOLOGY 3 sem. hrs.**

The study of the chordates with emphasis on the vertebrates in their evolutionary development from the lower to the higher forms. In addition, a careful study of the basic and important structures of each class of vertebrates, their functions, life histories and natural histories (special adaptations and habits, origin and development) will be considered. Prerequisite: **BIOL240**, with lab. 2 hours lecture, 3 hours lab.

**BIOL310 HUMAN ANATOMY AND PHYSIOLOGY 4 sem. hrs.**

A study of the organization and function of the human body. Anatomy is combined with the study of physiology to present an integrated understanding of the human organism. **Does not** fulfill requirements for biology majors. There are no prerequisites.

**BIOL311 BASIC EXPERIMENTAL PHYSIOLOGY 3 sem. hrs.**

An introductory laboratory course in human physiology intended for physical education majors. Basic concepts of human and general physiology are presented with an emphasis on laboratory exercises. Prerequisite: **HPE212** or **BIOL240**, with lab. 2 hours lecture, 3 hours lab.

**BIOL312 HUMAN PHYSIOLOGY AND ANATOMY I 4 sem. hrs.**

This course is a study of normal human function, designed for those preparing for vocations in the medical fields. The course will present the rationale of scientific investigation, the concept of living systems as cybernetic entities, the cell as a functioning system and the functional structure of human tissues and organs: centering attention on the Circulatory, Respiratory and Digestive systems. The course is half of a two semester sequence, the first semester (**BIOL312**) not

having any prerequisites, but itself being prerequisite for the second (**BIOL313**). Open to nursing majors or by consent of instructor; not available for credit to biology majors, with lab. 3 hours lecture, 3 hours lab.

**BIOL313 HUMAN PHYSIOLOGY AND ANATOMY II 4 sem. hrs.**

This course is a study of normal human function, designed for those preparing for vocations in the medical fields. The course will consider the integration, control and reproduction of the human organism as a whole; centering attention on the muscular, skeletal, nervous, endocrine and reproductive systems. Prerequisite: **BIOL312**, with lab. 3 hours lecture, 3 hours lab.

**BIOL314 COMPUTERS AND LIFE SCIENCE 3 sem. hrs.**

This lecture and laboratory course integrates the use of the computer with laboratory work and theory in the life sciences. It covers computer-aided instruction, experiment simulation, laboratory experimentation, data analysis, and computer interfacing. Prerequisites: **BIOL100** or **BIOL101**, or **BIOL102** or **BIOL150**.

**BIOL318 CLINICAL MICROBIOLOGY 4 sem. hrs.**

This course is an overview of clinical and medically significant microorganisms as well as an introduction to the basic concepts of microbiology. Particular emphasis will be on the isolation, identification, treatment and control of human pathogens. A discussion of the human immune response to infectious agents will be included. Prerequisites: **BIOL150** or both **BIOL312** and **BIOL313**.

**BIOL320 PLANT PHYSIOLOGY 4 sem. hrs.**

A study of the internal economy of vascular plants and their relations with their environment. Includes water relations, salt relations, photosynthesis, respiration and other cell processes of plants. Prerequisite: a C or better in **BIOL230** and **BIOL240**.

**BIOL325 HUMAN HISTORY AS HISTORICAL SCIENCE: GUNS, GERMS, AND STEEL 3 sem. hrs.**

This course provides for an understanding of human history as a historical science using the perspective of the author Jared Diamond from his Pulitzer Prize winning book *Guns, Germs, and Steel: The Fates of Human Societies*. In it, Diamond argues that the fate of different peoples rests on their environment, and not because of biological differences among groups of people. Furthermore, he argues that a comprehensive understanding of human history requires that scientific disciplines usually remotely tied to human history (i.e. genetics, biogeography, behavioral ecology,

epidemiology) must be included. This view will be critically evaluated, compared to competing theories of human history, and applied to a model of future human societies. Prerequisites: One biology course or one history course or permission of instructor. The course is restricted to Honors only or permission of instructor. Prerequisite: a C or better in BIOL230 and BIOL240. This course is approved for General Education Distribution - 3.

**BIOL340 ANIMAL PHYSIOLOGY**  
4 sem. hrs.

A study of the homeostatic functioning of organ systems, organs and tissues of living animals, employing various techniques-surgical, hormonal, pharmaceutical, mechanical and electrical - in order to achieve quantitative understanding of life processes. Much of the laboratory work involves student preparations of living amphibians and rodents. Prerequisite: BIOL140 and CHEM141 or CHEM 241 or CHEM330, with lab. 3 hours lecture, 3 hours lab; and a C or better in BIOL230 and BIOL240.

**BIOL341 VERTEBRATE ANATOMY**  
3 sem. hrs.

Primarily a course in comparative anatomy of the vertebrates. Type species are studied with emphasis on mammalian anatomy. Laboratory, lectures and demonstrations. Prerequisite: **BIOL140, with lab. 2 hours lecture, 3 hours lab; and a C or better in BIOL230 and BIOL240.**

**BIOL342 ANIMAL BEHAVIOR**  
3 sem. hrs.

This course considers the behavior of animals under natural and laboratory conditions, drawing examples from a range of invertebrates and vertebrates including primates. It discusses the relevance of behavior studies to the field of biology, and the contributions of behavior studies to ecology, taxonomy, and evolutionary theory. 2 hours lecture and 3 hours lab. Prerequisite: **BIOL140 or equivalent; and a C or better in BIOL230 and BIOL240.**

**BIOL343 HUMAN FACTORS ANALYSIS**  
3 sem. hrs.

This course teaches the basic principles of human factors analysis necessary for understanding people-system relationships. It emphasizes the history and goals of human factors analysis and ergonomics, basic human anatomy and ergonomics relevant to machine design, human sensory capabilities and limitations, design of information displays, workspace design, floor plan evaluation, and the effects of stressors on performance. It includes two hours of laboratory per week. Prerequisite: **BIOL101 or equivalent, or permission of instructor; and a C or better in BIOL230 and BIOL240.**

**BIOL395 INTERNSHIP IN BIOLOGY**  
3-15 sem. hrs.

This internship provides practical observation and experience in industry, research laboratories, hospitals, government agencies, or other professions or occupations related to the biological sciences. Students will spend all or part of the semester off campus in approved situations. In addition to the hours spent on the job, the student will also be responsible to his/her faculty internship advisor. Prerequisite: Approval of the Department of Biology and Health Services Internship Committee; and a C or better in BIOL230 and BIOL240.

**BIOL400 ECOLOGY**  
3 sem. hrs.

This course presents a study of plants and animals in relation to their physical and biological environments. Special topics include distribution factors, life zones, food chains and adaptations. Special attention is given to animal and plant communities in Northwestern Pennsylvania. Class consists of lectures, laboratory exercises, and field trips. Prerequisite: a grade of C or better in **BIOL230 and BIOL240.**

**BIOL403 ORGANIC EVOLUTION**  
3 sem. hrs.

The evolution of the modern synthesis and the ability of this theory to explain the genetic structure of populations, molecular evolution, adaptations and speciation will be discussed and investigated through laboratory exercises. Modern methods in phylogenetic systematic/taxonomy will also be presented and implemented through various projects. Prerequisite: **BIOL150 and BIOL300.** 2 hours lecture and 3 hours of lab.

**BIOL409 MOLECULAR BIOLOGY AND GENOMICS**  
4 sem. hrs.

This course will inculcate concepts in molecular biology and genomics and develop laboratory skills in molecular biology/biotechnology and computer skills in genomics, proteomics, and related areas. Three hours lecture and three hours laboratory. Prerequisites: **BIOL150** and either **BIOL300** or **BIOL305**, or equivalent.

**BIOL437 CONSERVATION BIOLOGY**  
3 sem. hrs.

This course provides an overview of the history and current status of species extinction and global loss of biodiversity. The course surveys methods used to conserve animal and plant life and wildlife habitat in the United States and around the world, and discusses conservation activities and needs in societal, cultural, economic, and political contexts. Prerequisite: a C or better in **BIOL230** and **BIOL240**, or permission of the instructor.

**BIOL442 ORNITHOLOGY**  
3 sem. hrs.

This course will include the identification, classification, and natural history of birds with emphasis on those of Pennsylvania and nearby states. It will involve laboratory, lectures, and much field study. Prerequisite: a C or better in **BIOL230** and **BIOL240.**

**BIOL447 FIELD ZOOLOGY AND SYSTEMATICS**  
3 sem. hrs.

This course is devoted to concepts and procedures of systematics, and to classifying and identifying fauna collected on field trips. Prerequisite: a C or better in **BIOL230** and **BIOL240.**

**BIOL451 PARASITOLOGY**  
3 sem. hrs.

This course introduces the study of anatomy, physiology, life history, and habits of parasites that affect humans and domesticated animals. Special attention is given to the parasitic protozoa, worms, and insects. Laboratory, lectures, and demonstrations. Prerequisite: a C or better in **BIOL230** and **BIOL240.**

**BIOL457 BIOLOGICAL STUDY DESIGN AND DATA ANALYSIS**  
3 sem. hrs.

This course examines the design and use of research hypotheses, controlled experiments, and data collection and analysis, as they apply to research in the biological sciences. Emphasis is on the role of statistical inference in the hypothetico-deductive approach to studying living organisms. Prerequisite: **BIOL150** and either **MATH260** or **MATH350**; and a C or better in **BIOL230** and **BIOL240.**

**BIOL472 BIOLOGY OF THE HIGHER INVERTEBRATES**  
3 sem. hrs.

Biology of Higher Invertebrates is an exploration of the life styles of the many animals without backbones, including form, function, and taxonomy. Lectures will focus on the unique features of different invertebrate phyla and the interesting ways animals interact with each other and their environments. We will cover topics in animal classification, life history and various types of human-invertebrate interactions. The laboratory section of the course will be composed of field work on campus and at Presque Isle, and laboratory work that examines invertebrate diversity and animal structure and function. Prerequisites: **BIOL150, BIOL240.** 2 hours lecture, 3 hours lab; and a C or better in **BIOL230** and **BIOL240.**

**BIOL481 FISH ECOLOGY**  
3 sem. hrs.

A field course dealing with the interrelationships of fish and the environment, biotic and abiotic. Fish in their natural habitats, pollution and



improvements of aquatic habitats, and applied aspects of fish ecology and fishery biology will be studied. Prerequisite: a C or better in **BIOL230** and **BIOL240** and a 2.0 program GPA.

**BIOL490 INDEPENDENT STUDY IN BIOLOGICAL SCIENCE**  
1-4 sem. hrs.

The Independent Study program aims to serve those students whose scholarly bent seems most clearly adapted to independent work. Students are permitted to resolve problems and to earn credit for work performed outside the classroom requirement of any specific course in the curriculum. Prerequisite: a C or better in **BIOL230** and **BIOL240**.

**BIOL520 PLANT ANATOMY**  
3 sem. hrs.

A study of plant structure emphasizing the interrelationships of cells, tissues and organs. Primary attention is given to the Meta phyta. Prerequisite: a C or better in **BIOL230** and **BIOL240**.

**BIOL521 PLANT TAXONOMY**  
3 sem. hrs.

A consideration of taxonomic concepts primarily as they relate to the tracheophytes. A study is made from the taxon-level of family to species involving the problems of identification, classification and nomenclature with consideration emphasis on field work. Lecture and laboratory. Prerequisite: a C or better in **BIOL230** and **BIOL240**.

**BIOL522 MYCOLOGY** 3 sem. hrs.  
A taxonomic study of the fungi considering primarily their morphology and their life cycle. Lecture, laboratory and field trips. Prerequisite: a C or better in **BIOL230** and **BIOL240**.

**BIOL523 ALGOLOGY** 3 sem. hrs.  
A study of cytology, genetics and morphology as they relate to function; identification, classification, life histories, economic importance and ecological relations of the algae with emphasis on the algae of the region. Prerequisite: a C or better in **BIOL230** and **BIOL240**.

**BIOL540 ENTOMOLOGY**  
3 sem. hrs.

A general study of the insects, including structure, physiology, economic importance, classification and relationships. Each student is required to participate in field trips and to complete a project including a collection and report on some group of insects. Laboratory, lectures and much field work. Prerequisite: a C or better in **BIOL230** and **BIOL240**.

**BIOL543 EMBRYOLOGY**  
3 sem. hrs.

An introduction to the differentiation and development of vertebrates. Laboratory emphasis will be on the development of the frog, chick and pig. Prerequisite: a C or better in **BIOL230** and **BIOL240**.

**BIOL555 MAMMALIAN REPRODUCTIVE PHYSIOLOGY** 3 sem. hrs.

This course for advanced undergraduate and graduate biology students emphasizes the reproductive physiology of humans and domesticated animal species. Prerequisite: a C or better in **BIOL230** and **BIOL240**.

**BIOL562 BASIC IMMUNOLOGY**  
1 sem. hr.

This course studies principles of immunology and their application to various biological problems. It covers classes of compounds which can function as antigens, characteristics of antibodies, techniques used to study antibody-antigen reactions, and applications of immunological principles to such problems as organ transplantation and allergies. Prerequisite: a C or better in **BIOL230** and **BIOL240** and **BIOL308**, or **BIOL318**.

**BIOL597, SPECIAL TOPICS IN 598, 599 BIOLOGY** 1-6 sem. hrs.

This course consists of lecture and/or field-based laboratory experiences and/or seminar discussions in biology. Material covered will consist of a focused examination of the professor's area of expertise. Prerequisite: a C or better in **BIOL230** and **BIOL240**.

**BUAD001 CAREER PREPARATION SEMINAR: BUSINESS**  
0 sem. hrs.

This seminar prepares students for successful career progression. Topics include resume development, job search strategies, interviewing skills, networking skills, opportunities and processes for graduate study, and an examination of practical workplace issues. Successful completion of this course is required for graduation from the BS Business Administration program. Prerequisite: Junior or Senior Standing.

**BUAD160 BUSINESS IN SOCIETY**  
3 sem. hrs.

This course introduces the student to the history and nature of business. The typical business models as well as nonprofit and entrepreneurial models of business are explored. Business is discussed within the constructs of society. Particular attention is paid to the place that ethical criteria serve in the business decision making model. Interwoven throughout the course are explorations of ethical issues. Prerequisite or co-requisite: any General Education Core 6 Ethics course

**BUAD260 BUSINESS LAW I**  
3 sem. hrs.

This course surveys the legal environment manager's face with attention to the sources of law and the arenas of dispute resolution, as well as to the relationship between law and ethics. Studies include an overview of criminal, tort and agency laws as they affect business. Contract law, including sales contracts, is studied in greater depth. Prerequisite: **ECON220** or **ACCT220** or permission of the instructor.

**BUAD320 INFORMATION RESOURCE MANAGEMENT**  
3 sem. hrs.

This course provides a fundamental understanding of the principles of information resource management and related business information system applications and issues. A managerial approach familiarizes students with the Information Technology resources and their application to the enterprise business model. Students will also use the personal productivity tools, Spreadsheet, Word Processing, Presentation and Database software to solve business problems. Prerequisites: **Enrollment in a BSBA concentration**, and **MGMT300**, **CSCI104**.

**BUAD365 BUSINESS LAW II**  
3 sem. hrs.

This course deepens the understanding of managers of the legal environment that business introduced in **BUAD260**. The law of business organizations and the sale of securities are introduced. Property law including intellectual property, the law of negotiable instruments, and estate and trust law are discussed. A selection of other topics of current interest including credit transactions, bankruptcy, cyberlaw, and environmental law may be explored. Prerequisite: **Enrollment in a BSBA concentration**, and **BUAD260** or permission of the instructor.

**BUAD410 LEGAL ENVIRONMENT OF INTERNATIONAL BUSINESS** 3 sem. hrs.

This course surveys the legal environment of international business in an increasingly interdependent world and studies the major forms of conducting global business. It also surveys those laws of the United States which affect the multinational company. Prerequisites: **Enrollment in a BSBA concentration**, and **BUAD260** or **BUAD365** or permission of the instructor.

**BUAD475 BUSINESS DECISION MAKING** 3 sem. hrs.

This course is a comprehensive capstone course that involves the study of both theoretical and practical approaches to

business decision making and strategic and tactical planning. It requires students to integrate the knowledge and tools learned in other business courses into the development of business strategies and its execution through a Team Business Simulation exercise. Written and oral presentations are an integral component of the course. Prerequisites: **Enrollment in a BSBA concentration**, and **BUAD320, FIN300, MKTG300, BUAD160 or PHIL260, QUAN340**, at least two (2) 310-level or higher department courses, and senior standing.

**BUAD490 INDEPENDENT STUDY:  
BUSINESS Variable Credit**

The Independent Study program aims to serve those students whose scholarly bent seems most clearly adapted to independent work. Students are permitted to resolve problems and to earn credit for work performed outside the classroom requirement of any specific course in the curriculum. Prerequisite: **Enrollment in a BSBA concentration**.

**BUAD495 INTERNSHIP IN  
BUSINESS 3-15 sem. hrs.**

The business internship provides students with an on-the-job learning experience in a commercial firm, government agency, or institution. Interns have an opportunity to apply classroom learning in a practical work environment. Business interns must have earned 60 credits, with at least 15 of those credits taken at Edinboro University, and including a minimum of 9 credits in section III of the business administration concentration's curriculum requirements. A minimum 2.6 grade point average in his/her major and a 2.4 grade point average overall is required. Application approval will be in accordance with University policy. Prerequisite: **Enrollment in a BSBA concentration**.

**- C -**

**CHEM107 FORENSIC CHEMISTRY -  
FACT AND FICTION  
3 sem. hrs.**

This is a survey course that emphasizes the chemical aspects of forensic science. The scientific method and the major laws of chemistry will be applied to analytical problems encountered in crime laboratories. A variety of both dramatic and factual television programs will provide the context for exercises in basic chemistry, critical thinking, and collaborative problem solving. Using televised presentations, students will identify the chemical tests that were used, examine their validity and limitations, and report their conclusions. This course is approved for General Education - Core 7.

**CHEM110 CHEMISTRY  
ORIENTATION 3 sem. hrs.**

This course includes elementary chemical concepts, nomenclature and mathematical manipulations with special reference to chemical problems. It is intended for students with a weak science/math background and is not open to students who have completed **CHEM140** or **CHEM240**.

**CHEM115 CHEMISTRY IN THE  
KITCHEN 3 sem. hrs.**

This course covers the basic chemical principles that govern reactions in food and beverage products. The basics of chemistry are taught in the context of foods and their preparation. Reactions and interactions in proteins, carbohydrates and lipids will be covered. Additionally, the effects of changing reaction conditions on taste, texture and quality will be discussed. In-class activities may include simple food preparation. Students may be required to do some simple activities involving "chemistry in the kitchen" at home (or in the residence hall). This course is approved for General Education - Core 7.

**CHEM120 CHEMISTRY IN A  
MODERN WORLD  
3 sem. hrs.**

A course intended for non-science students who have minimal knowledge of chemistry. It puts the discipline of chemistry into a 'real world' perspective. It investigates the organization of the particles of matter, their interactions and reactions. The course also includes discussions/investigations of the chemistry of environmental issues, nutrition and biochemistry and consumer chemistry. On average, there will be 2 hours of lecture and 2 hours of laboratory per week. This course is approved for General Education - Core 7.

**CHEM140 GENERAL CHEMISTRY  
4 sem. hrs.**

This course covers basic chemistry with special attention to the elements and reactions that occur in biological systems. Topics include stoichiometry, solutions, acids, bases, and nuclear chemistry. There are three hours of laboratory per week. This course is approved for General Education - Core 7. Prerequisite: Students earn a satisfactory score on the Chemistry Department placement exam.

**CHEM141 BIO-ORGANIC  
CHEMISTRY 4 sem. hrs.**

This course is organic chemistry with emphasis on structures and reactions that occur in biological systems, and biochemistry focusing on carbohydrates, proteins, enzymes, lipids, nucleic acids, hormones and some intermediary metabolism. There is a three hour lab per week. Prerequisite: **CHEM140**. This course is approved for General Education - Distribution 3.

**CHEM215 CHEMISTRY OF SEX  
3 sem. hrs.**

This course covers the chemical signaling in the body that triggers feelings of love and lust, and the physiological responses involved in sex. The basics of chemistry are taught in the context of the human body. Chemical interactions and chemical reactions are also discussed within this context. Effects of pheromones, pharmaceuticals, and other external chemical influences are discussed. Prerequisite: **ENGL 102**. This course is approved for General Education - Distribution 3.

**CHEM230 ENVIRONMENTAL  
CHEMISTRY 3 sem. hrs.**

This course focuses on environmental problems and concerns from a chemistry and global perspective, including quality and pollution of the air and water. Topics also include the chemistry of smog, ozone layer, and global climate change. Throughout the course, principles of sustainability and green chemistry will be introduced as guidelines. The course will serve as a foundation for environmental literacy and for students interested in understanding the environment from a chemistry perspective. Prerequisite: **ENGL102**. This course is approved for General Education - Distribution 3.

**CHEM240 PRINCIPLES OF  
CHEMISTRY I 4 sem. hrs.**

Principles of Chemistry I is a survey of the fundamental principles of chemistry with special emphasis on the structure of matter and reactions. The topics include nature of matter, fundamental and composite particles, the periodic table, stoichiometry, chemical reactions in aqueous solution, thermochemistry, the electronic structure of atoms and ions, structure and bonding of molecules, and gas laws. There are three hours of laboratory per week. Prerequisite: A satisfactory score on the Chemistry Department placement exam and a score on the Mathematics Department placement test that permits registration into at least College Algebra (MATH 105). This course is approved for General Education - Core 7.

**CHEM241 PRINCIPLES OF  
CHEMISTRY II 4 sem. hrs.**

This course is a continuation of Principles of Chemistry I. Topics include solutions, oxidation-reduction reactions, chemical kinetics, chemical equilibrium, chemical thermodynamics, acid-base theory, ionic equilibria, electrochemistry and elementary organic chemistry. Computer spreadsheets are regularly used to analyze laboratory data. There is one three hour lab per week. Prerequisite: **CHEM240** or **CHEM140** with instructor permission. This course is approved for General Education - Distribution 3, and Computer Competency.

**CHEM280 LABORATORY SAFETY**  
1 sem. hr.

This course instructs students in the safe handling of materials. Students learn about chemical reactivity, storage, personal protection, and available information sources. Prerequisite: one year of college chemistry or permission of instructor.

**CHEM301 GENERAL ORGANIC CHEMISTRY**  
4 sem. hrs.

An introduction to the theory and practical applications of Organic Chemistry. In addition to covering the essential and most important organic reactions, theoretical concepts such as reaction mechanisms are discussed. The course is intended to provide background information for students in the health sciences and biology. There is a three hour lab per week. Prerequisite: **CHEM140** or **CHEM241**. This course is approved for General Education – Distribution 3.

**CHEM302 GENERAL BIOCHEMISTRY**  
4 sem. hrs.

This course introduces General Biochemistry with particular emphasis on the structure of molecules. Topics include the chemistry and metabolism of carbohydrates, lipids, proteins and nucleic acids, enzyme structure/function and genetic information transfer. There is a three hour lab per week. Prerequisite: **CHEM301** or **CHEM331**. This course is approved for General Education – Distribution 3.

**CHEM310 QUANTITATIVE ANALYSIS**  
4 sem. hrs.

This course introduces the basics of quantitative chemical analysis including the evaluation of analytical data, gravimetric analysis, titrimetric analysis based on precipitation, acid-base, oxidation-reduction and complexation reactions, potentiometry and other electroanalytical methods, absorption and emission spectroscopy and simple analytical separations. There is one laboratory period per week. Prerequisite: **CHEM140** or **CHEM241** or consent of instructor. This course is approved for General Education – Distribution 3.

**CHEM330 ORGANIC CHEMISTRY I**  
4 sem. hrs.

This course studies the compounds containing carbon, both the aliphatic and aromatic series, emphasizing structural relationships, nomenclature, mechanisms, and characterization of individual functional groups. There is one three hour laboratory per week. Prerequisite: **CHEM140** or **CHEM241**. This course is approved for General Education – Distribution 2.

**CHEM331 ORGANIC CHEMISTRY II**  
4 sem. hrs.

This course continues Organic Chemistry I, emphasizing the oxygen and nitrogen-containing functional groups of both the aliphatic and aromatic series. It stresses spectroscopy as an analytical method throughout the course. There is one three hour laboratory per week. Prerequisite: **CHEM330**. This course is approved for General Education – Distribution 3.

**CHEM341 BIOCHEMISTRY**  
4 sem. hrs.

This course introduces biochemistry with particular emphasis on the structure of biological macromolecules, and their chemical properties. Topics include: protein and enzyme structure and function, nucleic acid structure, and carbohydrate and lipid chemistry. There is a three-hour lab per week. Prerequisite: **CHEM331**.

**CHEM381 SEARCHING SCIENTIFIC LITERATURE**  
1 sem. hr.

This course introduces science, education majors, and others to systematic methods of accessing scientific information. While the focus is on searching the chemical literature, students will be exposed to searching information relevant to other scientific disciplines. Students learn to use important library resources such as abstracts, reviews, monographs, and on-line sources. Prerequisite: one year of college chemistry or permission of instructor.

**CHEM420 INORGANIC CHEMISTRY**  
3 sem. hrs.

Introduction to the basic concepts necessary for further study in inorganic chemistry. A study of the electronic structure and periodic relationships between the elements and their compounds. Topics include atomic structure, covalent and ionic substances, thermochemistry, acid-base theory, metals, electron deficient and coordination compounds. Prerequisite: **CHEM531**.

**CHEM421 ADVANCED ORGANIC CHEMISTRY**  
3 sem. hrs.

Students learn and apply theories of molecular orbitals, organic reaction mechanisms, linear free energy relationships, reactive intermediates, and excited states to the study of organic chemistry. Students apply spectroscopy to understanding of modern theories of organic chemistry. Prerequisite: **CHEM 331** and **CHEM 530** as pre- or co-requisite with permission of the instructor.

**CHEM450 INSTRUMENTAL ANALYSIS**  
5 sem. hrs.

A course dealing with the theory of electrochemical, photochemical and physico-chemical measurements and their application to the separation and analysis of chemical systems. Six hours of laboratory/week. Prerequisite: **CHEM310**.

**CHEM460 FORENSIC ANALYSIS**  
3 sem. hrs.

This course will provide students with theoretical knowledge and technical skills in the areas of forensic analysis of microscopic evidence and physiological fluids. This course will include both lecture and laboratory components. Prerequisites: **CHEM331**, **CHEM310**, **CHEM341**, and **CRIM355**.

**CHEM481 SEMINAR**  
1 sem. hr.

Students give public presentations of scientific findings. This course introduces students to various presentation styles and organization of material for a scientific presentation. The course content will vary depending upon the interests of the participating students and developments in the field. Prerequisite: **CHEM381**.

**CHEM490 INDEPENDENT STUDY IN CHEMISTRY**  
2-5 sem. hrs.

The Independent Study program aims to serve those students whose scholarly bent seems most clearly adapted to independent work. Students are permitted to resolve problems and to earn credit for work performed outside the classroom requirements of any specific course in the curriculum.

**CHEM495 INTERNSHIP IN CHEMISTRY – FORENSIC SCIENCE**  
3 sem. hrs.

The internship provides experience in laboratories related to forensic investigations. Students will spend time off campus and in approved laboratory sites with primary supervision by agency personnel. The internship requires approval prior to participation. Students must satisfy internship requirements as detailed in the catalogue and must have completed **CHEM460** or **CHEM450** and **BIOL305**.

**CHEM530 PHYSICAL CHEMISTRY I**  
4 sem. hrs.

This course introduces the fundamental concepts of theoretical chemistry with emphasis on quantitative calculations. Topics include the properties of gases, thermodynamics, thermochemistry, phase equilibria, ideal and non-ideal mixtures, and reaction equilibria. Three hours of laboratory per week are included.

**Co-requisite: PHYS202 or PHYS321; Prerequisites: CHEM310 and MATH212**

**CHEM531 PHYSICAL CHEMISTRY II**  
4 sem. hrs.

This course continues Physical Chemistry I. Topics include electrochemistry, kinetic theory of gases, reaction kinetics, quantum chemistry, atomic and molecular structure, molecular spectroscopy and statistical thermodynamics. Three hours of laboratory per week are included. Prerequisite: **CHEM530**.

**CHEM533 POLYMER CHEMISTRY**  
3 sem. hrs.

This course includes the study of synthesis, reaction mechanism and reaction kinetics of polymers, and the properties of polymers and their relationship to the structure of the polymers. Prerequisite: **CHEM331**. Pre- or co-requisite: **CHEM530**.

**CHEM535 ADVANCED CHEMISTRY LABORATORY I**  
1 sem. hr.

An introduction to chemical experimentation providing a basis for future laboratory research in chemistry. Experiments are selected to illustrate the application of physical measurement techniques to all areas of chemistry. Prerequisites: **CHEM310** and **CHEM530**. Co-requisite: **CHEM531**.

**CHEM541 ADVANCED BIOCHEMISTRY**  
3 sem. hrs.

A detailed analysis of enzyme mechanisms and kinetics, including regulatory mechanisms employed by the body. Regulation of gene expression included. Prerequisite: **CHEM341**.

**COMM100 HUMAN COMMUNICATION**  
3 sem. hrs.

In this course, students will be introduced to the central issues and topics of human communication, with particular attention paid to the impact technological change has on every sphere of communication. Students will relate human communication concepts to their everyday experiences and improve their communication skills in the process. This course is approved for General Education Core 4: Human Behavior.

**COMM107 PUBLIC SPEAKING**  
3 sem. hrs.

This course provides students with various speaking situations for which they construct and deliver an effective oral communication. It is concerned with putting multiple communication theories into practice, including the principles of invention, analytical thinking, organization, evidence, delivery, style, and ethical speaking. The course is approved for General Education – Distribution 1.

**COMM125 COMMUNICATION AND SOCIAL PROCESSES**  
3 sem. hrs.

This course introduces students to persuasive process in human communication, focused on the relationship of symbols, mind, and social interaction. Persuasion and communication competence in various contexts are explored. This course is approved for General Education Core 4: Human Behavior.

**COMM150 INTRODUCTION TO COMMUNICATION STUDIES**  
3 sem. hrs.

This course is designed as a broad introduction to the field of communication studies, which includes both content and the process of communication. The major divisions of the field of communication are addressed such as: nonverbal, interpersonal, group, organizational, public, mass media, and intercultural.

**COMM200 THE RHETORICAL POWER OF POPULAR CULTURE**  
3 sem. hrs.

This course will explore the way that powerfully persuasive rhetorical messages pervade daily life in American popular culture. Students will focus on the role that popular culture plays in persuading us what to believe and how to behave through a range of contexts including film, sports, music, video games, advertisements, television and technology.

**COMM213 INTRODUCTION TO PERFORMANCE STUDIES**  
3 sem. hrs.

This course will introduce students to performance studies. Students will develop skills in prose, poetry, and drama through oral performance in the class and on the stage. This course is approved for General Education Core 1: Artistic Expression.

**COMM220 INTERCULTURAL COMMUNICATION**  
3 sem. hrs.

This course provides both a practical and theoretical introduction to the field of intercultural, intracultural, and interracial communication. It explores intercultural communication between individuals and small groups representing different cultural experiences and backgrounds. This course is approved for General Education – Core 5.

**COMM225 INTERPERSONAL COMMUNICATION**  
3 sem. hrs.

This course provides a general introduction to the study of interpersonal communication. It investigates approaches to more effectively engage in one-on-one communication in personal and business settings. Prerequisite: **COMM107**

**COMM230 ORGANIZATIONAL COMMUNICATION**  
3 sem. hrs.

This course focuses on the structures and functions of communication in and between organizations. Organizing is studied from theoretical and applied perspectives, with emphasis on networks of interactive social systems, group dynamics, management communication, conflict, negotiation, and relations with various publics. This course is approved for General Education – Distribution 1.

**COMM240 CUSTOMER RELATIONS & COMMUNICATION**  
3 sem. hrs.

This course focuses on the role of communication in customer relations and customer service. Using applied activities and simulations, this course is designed to teach students how to respond to customers, resolve problems, provide quality customer relations, and measure customer relations goals.

**COMM280 DYNAMICS OF SALES PROMOTION**  
3 sem. hrs.

This course is concerned with the communicative aspects of professional sales promotion. It examines the persuasive processes involved in sales, the intrapersonal, interpersonal, and organizational communicative aspects in sales promotion. Focus is on communicative skills training for the organizational communication professional.

**COMM290 INTRODUCTION TO CONFLICT MANAGEMENT**  
3 sem. hrs.

This course examines the causes and patterns of interpersonal conflict and the various styles and strategies for managing conflict. It covers the social nature of conflict, with attention to psychological and cultural factors, and offers a range of applications for working through various conflict situations.

**COMM297 INTERNSHIP IN CUSTOMER RELATIONS**

The customer relations internship provides students an on-the-job work/educational experience and enables them to apply conceptual knowledge and skills learned in the classroom to the work environment in customer relations.

**COMM298 BUSINESS AND PROFESSIONAL COMMUNICATION**  
3 sem. hrs.

The goal of this course is to introduce students to the basics of business and professional communication in the US and in global companies. The course includes an introduction to research and interview skills, written and verbal professional communication, and collaboration in the workplace.

**COMM300 CRISIS COMMUNICATION**  
**3 sem. hrs.**

This course is designed to develop a conceptual understanding of the process of crisis communication. Particular attention is given to crisis management, crisis planning, image restoration, media relationships, communication strategies, and issues management. Students gain practical experience in designing crisis communication plans for organizational clients.

**COMM305 EVENT PLANNING**  
**3 sem. hrs.**

This course provides students with theory and applications in planning, organizing, promoting, implementing, and evaluating special events.

**COMM308 LEADERSHIP COMMUNICATION**  
**3 sem. hrs.**

This course presents theories of leadership and introduces students to the wide range of communication practices involved in the academic study of leadership in all its facets. It is based on the assumption that communication is central to virtually all organizational practice, and is designed to have students apply leadership theories and practices to their lives. This course is approved for General Education Distribution 2: Social & Behavioral Sciences. Prerequisite: Sophomore Standing or Permission of Instructor.

**COMM310 INTRODUCTION TO COMMUNICATION RESEARCH**  
**3 sem. hrs.**

This course introduces students to the principles, practices, applications, and ethics of communication research. Students will learn the basics of research methods and design as well as the nature of interpretation, presentation, and use of research findings. Prerequisite: ENGL102 or ENGL104.

**COMM311 ARGUMENTATION AND DEBATE**  
**3 sem. hrs.**

Designed for those students interested in pursuing the theory and practice of argumentation as it applies to both formal and informal discussion and debate situations. Argumentation is approached as a method of analysis and a process of influence.

**COMM312 GROUP DISCUSSION**  
**3 sem. hrs.**

Study of group processes and dynamics through participation in small group discussions. Topics covered include responsibilities of group members, leadership, problem-solving, development, and maintenance of trust. Prerequisite: COMM107.

**COMM315 ADVANCED PUBLIC SPEAKING**  
**3 sem. hrs.**

Designed for students who wish to receive advanced training in speech making. Specialized activity in voice and diction, practice in platform speaking and opportunities in speaking for special occasions. Designed to provide optimum practical experience. Prerequisite: COMM107.

**COMM318 INTERVIEWING: PRINCIPLES AND PRACTICES**  
**3 sem. hrs.**

This course introduces students to the purposes and kinds of interviews, and methods of preparing for interviews. It provides students with practice in informational, employment and persuasive interviewing. This course is approved for General Education –Distribution 1.

**COMM320 HEALTH COMMUNICATION**  
**3 sem. hrs.**

This course examines the function of communication in an array of health contexts locally, nationally and globally. It is designed to provide a holistic introduction to health issues as they relate to human communication at interpersonal, organizational and cultural levels. This course examines the nature, theories, and research shaping understanding of health as a communication phenomenon.

**COMM321 NONVERBAL COMMUNICATION**  
**3 sem. hrs.**

This course examines the processes and effects of communicating in nonverbal codes with emphasis upon such areas as proxemics (space), kinesics (body movement), chronemics (time), haptics (touch), paralanguage (intercultural variations), and relations in public as they affect the parameters, limitations, and significance of personal nonverbal behavior. Prerequisite: COMM107. This course is approved for General Education – Distribution 1.

**COMM330 ADVANCED PERFORMANCE STUDIES**  
**3 sem. hrs.**

This course will advance the student's understanding of and abilities in performance studies. Students will write, produce, direct, and perform in staged events on campus and in the community. This course is approved for General Education Distribution 1: Humanities and Fine Arts. Prerequisite: COMM213 Introduction to Performance Studies or Permission of Instructor.

**COMM331 GROUP PERFORMANCE AND PERFORMANCE ETHNOGRAPHY**  
**3 sem. hrs.**

This course will examine alternative theatre, rituals, and group performance. Students will construct texts based upon ethnographic

research and present performances based upon self-discovery and observation of others. This course is approved for General Education Distribution 1: Humanities and Fine Arts.

**COMM335 COMMUNICATING DIFFERENCE: RACE, CLASS, & GENDER**

This course seeks to shape understandings of ourselves and others in a variety of communication settings, including mass media, interpersonal relationships, and organizational structures, examining the ways in which race-, class-, and gender-based communication practices can and do create, reinforce, adjust and sometimes overcome inequality in society. The goal of this examination is to increase awareness of inequity in communication, to challenge theoretical assumptions about what constitutes inequity, and to offer new perspectives from which we view race-, class-, and gender-based rhetorical practices. This course is approved for General Education Distribution 1: Humanities & Fine Arts. Prerequisite: Sophomore standing.

**COMM340 CONFLICT, POWER AND COMMUNICATION**  
**3 sem. hrs.**

Aspects of interpersonal, group and organizational power relations will be studied in relation to processes of conflict negotiation. Emphasis will be on early recognition of unhealthy conflict, accurate diagnosis of its causes, and the development of effective communication-based intervention strategies. Students will focus on skill development and apply theoretical modes of real-life case studies.

**COMM360 FREEDOM OF SPEECH**  
**3 sem. hrs.**

This course examines the history of First Amendment cases and challenges students to think critically about the meaning of “free and responsible” communication. It investigates “free speech” in political, occupational, media, and personal contexts, considering rights and restrictions in communication. Prerequisite: COMM 107 or Permission of Instructor. This course is approved for General Education - Distribution 1.

**COMM412 CONTEMPORARY RHETORIC**  
**3 sem. hrs.**

This course is designed to develop a conceptual understanding of the process of contemporary rhetorical theory. Trends in rhetorical thought from the mid-twentieth century on will be explored. Additional attention will be paid to the emerging non-Western traditions. This course will explore the contemporary sources of rhetoric such as Non-governmental Organizations (NGOs), social movements, contemporary trials, and advertising campaigns. Prerequisite: **Junior Standing.**

**COMM415 LANGUAGE AND  
THOUGHT IN  
COMMUNICATION****3 sem. hrs.**

The course develops an awareness of how the relationship between language, language habits, and behavior improve our functioning in society. It examines General Semantics as an approach to linguistic study and the impact of the symbolic evaluative process as mitigated by language. This course is approved for General Education – Distribution 1.

**COMM416 PERSUASION AND  
PROPAGANDA****3 sem. hrs.**

The course studies the psychological, social, and cultural bases of persuasion and propaganda in contemporary society. It explores persuasion on the interpersonal, public, and mass communication levels, and examines persuasion in sales, politics, religion, and the legal system. This course is approved for General Education – Distribution 1.

**COMM418 COMMUNICATION  
TRAINING &  
DEVELOPMENT****3 sem. hrs.**

This course explores communication training and development as an area of research and instruction for students interested in applied communication. Students have the opportunity to design communication training programs for clients beginning with the needs assessment phase and continuing through the evaluation phase. Prerequisites: Junior standing or permission of instructor.

**COMM419 POLITICAL CAMPAIGN  
COMMUNICATION****3 sem. hrs.**

This course is concerned with the theory and research related to political campaign communication. It examines the persuasive process of political campaigning, the role of the media, the candidate, and image creation. Prerequisite: Junior Standing.

**COMM477 COMMUNICATION  
STUDIES IN SCOTLAND****3-12 sem. hrs.**

This course, taught in Scotland, studies symbols, meanings, and diversity in Scotland's evolving social systems, with a focus on language, icons, and intercultural communication. This course can be taken for graduate or undergraduate credit. Prerequisite: Junior standing

**COMM490 INDEPENDENT STUDY****3-12 sem. hrs.****COMM 495 SENIOR CAPSTONE****3 sem. hrs.**

This capstone course provides students with an opportunity to design and implement an applied research project that demonstrates understanding of communication theory and practice. The successful completion of the course requires investigation of a specific topic related to one of the communication major tracks, with clearly defined problems, questions and procedures for gathering and analyzing data. Students present their research and findings in a public forum at the end of the course. Prerequisite: COMM 310 Communication Research; Senior standing.

**COMM496 INTERNSHIP/FIELD  
EXPERIENCE IN  
COMMUNICATION****STUDIES 6-15 sem. hrs.**

The internship experience provides advanced students with an on-the-job work/educational experience and enables them to apply conceptual knowledge and skills learned in the classroom to the work environment.

**COMM497/8/9 STUDIES IN  
COMMUNICATIONS****1-6 sem. hrs.**

These topics represent a variety of courses in specialized areas beyond the content of regular courses. Examples include general semantics, creativity and communication, leadership communication, and topics relevant to select to study abroad courses. Specific areas will be developed based on needs and abilities of students in conjunction with available faculty.

**COMM505 COMMUNICATION  
STRATEGIES IN  
ADVERTISING****3 sem. hrs.**

This course teaches dynamics of communication in the creation, implementation, and criticism of advertising. Students learn to analyze communication research, message strategies, execution of advertisements, and client-media-consumer relationships from theoretical, critical and applied perspectives. Pre-requisites: Junior status or Permission of Instructor; Graduate status for 600 level enrollment.

**COMM507 CRITICISM OF MASS  
MEDIA****3 sem. hrs.**

This course examines methods for the critical analysis of mass media messages generated through radio, television, film, and newspapers. Students gain insight into the effect of media on society with particular focus on news bias, mediated politics, advertising, censorship, television violence, economic support systems, and media stereotyping. Prerequisites: JOUR264or Permission of Instructor.

**CRIM100 INTRODUCTION TO  
CRIMINAL JUSTICE****3 sem. hrs.**

This course provides a broad overview of the theory, structure, development, and performance of the American system of criminal justice. Topics include, among others, the concept of crime; criminal behavior; American criminal law; constitutional limits on government power related to crime and justice; and the theory structure, and practice of policing, adjudication, and corrections.

**CRIM210 INTRODUCTION TO  
CORRECTIONS****3 sem. hrs.**

This course presents an overview of the history of penology and a review of contemporary correctional ideologies. Topics include the systems of probation, parole, and prisons, and their interface with the criminal justice system. It reviews issues in perspective of social and political developments and introduces methods of evaluative research, prevailing practices, policies, and procedures. Prerequisite: **CRIM100**.

**CRIM230 INTRODUCTION TO  
POLICING****3 sem. hrs.**

This course introduces significant issues in policing. Topics include the development of policing and law enforcement, police work, personnel systems, organization and management, police operations, police discretion, police subculture, ethics and deviance, civil liability, and other current topics of interest to policing and law enforcement. Prerequisite: **CRIM100**

**CRIM265 INTRODUCTION TO  
COURTS, CRIMINAL LAW  
AND PROCEDURE****3 sem. hrs.**

The focus of this course will be the analysis of questions central to understanding the composition and performance of the judicial agencies of the United States. Careful attention will be paid to the nature of American civil and criminal law, the competence and jurisdiction of courts, procedure prior to and during trial, appeals and the interpretation of information in the courtroom. Prerequisite: **CRIM100**

**CRIM295 CRIMINAL JUSTICE  
ETHICS****3 sem. hrs.**

This course examines the modern day-to-day challenges facing criminal justice practitioners and the need for future practitioners to develop analytical skills to understand the pragmatic and theoretical aspects of the criminal justice system. It will also focus on the importance of the criminal justice professional to promptly identify the ethical issues/consequences and moral principles associated with various actions in an inherently coercive environment. Prerequisites: **CRIM 100, 210, 230, and 265**

**CRIM321 ORGANIZED CRIME**  
**3 sem. hrs.**

This course conceptualizes, describes, and explains organized crime and significant related issues, such as white-collar and organized crime. Examined topics include definitions of organized crime, traditional organized crime (e.g., Mafia), non-traditional organized crime (e.g., Takuzo, Triads, Outlaw Motorcycle Gangs, Street Gangs, Columbian and Mexican Drug Organizations, Terrorist Organizations, and so forth), common methods of making money through organized crime, money laundering, law enforcements role in investigating organized crime, governments relationship to Organized Crime, and controversies surrounding the topic. Prerequisite: None.

**CRIM340 CRIMINAL INVESTIGATION**  
**3 sem. hrs.**

This course provides an understanding of basic procedures in the investigation of criminal matters. It includes interview procedures, crime scene examinations, development of information procedures for solving crimes, and finding missing persons. It also presents problems for resolution.

**CRIM355 CRIMINALISTICS**  
**3 sem. hrs.**

This course consists of the scientific aspects of criminal investigation. Major emphasis will focus on the science of finger printing and the examination of evidence. Some examination of advanced police science laboratory techniques such as examining firearms, poisons, hairs, fibers will be included. Prerequisite: **CRIM100** or permission of the instructor.

**CRIM370 PROBATION, PAROLE AND COMMUNITY CORRECTIONS**  
**3 sem. hrs.**

This course examines an array of community-based correctional programs, including the development of intermediate sanctions and theoretical as well as practical aspects of probation and parole work. It considers programs designed to meet the problems of special needs offenders and provides experience in completing a presentence investigation. Prerequisite: **CRIM100** or permission of the instructor.

**CRIM380 JUVENILE JUSTICE**  
**3 sem. hrs.**

This course provides an understanding of the juvenile justice system. Areas of study include the history and philosophy of juvenile justice, police work with juveniles, procedures in juvenile court, community programs, institutionalization and aftercare, and contemporary issues concerning control of juvenile offenders and reduction of recidivism. Prerequisite: **CRIM100**.

**CRIM395 INTERNSHIP IN CRIMINAL JUSTICE**  
**1-15 sem. hrs.**

This course allows students to receive academic credit for an approved internship experience in the criminal justice system. Prerequisites: Student must have earned 64 credits, with at least 16 of those credits taken at Edinboro University, including a minimum of nine credits in criminal justice courses (course that count toward the B.A. in Criminal Justice degree). The applicant must have a minimum overall grade point average of 2.0 and a minimum grade point average of 2.5 in the major. Students not meeting the requisite grade requirements may request special approval by a committee comprised of members of the Political Science and Criminal Justice Department. Subject to departmental approval, the application shall be forwarded to the Dean of the School of Liberal Arts for further consideration and approval.

**CRIM430 WHITE-COLLAR CRIME**  
**3 sem. hrs.**

This course is an examination of white-collar crime. The motivations and methods of perpetrators and the responses of actors in the criminal justice system to these crimes will be discussed. Particular attention will be paid to the use of technology in the prevention of white-collar crime. Prerequisite: **CRIM100** or permission of the instructor.

**CRIM435 HOMELAND SECURITY**  
**3 sem. hrs.**

This course is an overview of the philosophy, purpose, and rationale for a separate cabinet-level department focusing on domestic security. Particular emphasis will be paid to the role of state and local law enforcement in federal policy implementation. Prerequisite: **CRIM100** or permission of the instructor.

**CRIM440 EMERGENCY MANAGEMENT**  
**3 sem. hrs.**

This course is an overview of emergency management in the United States. The course will focus on the four phases of the emergency management process: mitigation, preparedness, response and recovery. Prerequisite: **CRIM100** or permission of the instructor.

**CRIM442 SECURITY SYSTEMS**  
**3 sem. hrs.**

A study of private security measures, hardware and personnel used to prevent and control crime and disaster. An emphasis on security techniques and loss prevention. Physical security, internal theft, fire prevention and retail security are studied in depth along with robbery, kidnapping, counterfeiting, fraud and bombing matters. The relationship between security and public law enforcement is also considered.

**CRIM443 ARSON INVESTIGATION**  
**3 sem. hrs.**

A comprehensive and detailed study of arson and fire setters. In addition to the legal, psychological, and social aspects of arson, the course will deal with the techniques for determining the origin, cause, and responsibility for natural, accidental, and intentional fires. Prerequisite: **CRIM100** or permission of the instructor.

**CRIM450 COMPUTERS, CRIME AND CRIMINAL JUSTICE**  
**3 sem. hrs.**

This course investigates how computers intersect with crime and the criminal justice system. Students will learn to use the World Wide Web for research and focus upon specific criminal justice information available over the Internet. The class will look at a variety of computer crimes, crimes assisted by computers, their investigation, security measures which can be used, and introduce computer forensic techniques. The use of computers by the police, prosecutors, the courts, probation and parole, jails and prisons, and citizen action groups will be studied. Graduate students will demonstrate a deeper understanding of the complexities of computers, crime and criminal justice. Prerequisite: **CSCI104** or higher and **CRIM100**. Majors only or permission of the instructor.

**CRIM462 PENNSYLVANIA CRIMINAL CODE**  
**3 sem. hrs.**

A close examination of the revised substantive and procedural criminal statutes of Pennsylvania with an emphasis upon recent interpretation by the state courts. Prerequisite: **CRIM100** or permission of the instructor.

**CRIM465 ADVANCED CRIMINALISTICS**  
**4 sem. hrs.**

This course presents an overview of forensic investigative techniques used to process various types of crime scenes. Emphasis will be placed on evidence collection, preservation and submission protocols, proper use of standards, chain of custody issues, and crime scene reconstruction related to "comparative" types of evidence. In addition, the role of the crime scene technician as an expert witness will be explored. Prerequisite: **CRIM355**.

**CRIM467 WRONGFUL CONVICTIONS**  
**3 sem. hrs.**

This course examines the causes of wrongful convictions and evaluates proposed reforms. Topics of study include the role of police, prosecutors, defense lawyers, and forensic scientists in wrongful convictions. Students review and discuss historical and contemporary examples and explore related ethical issues, focusing on wrongful convictions and the death penalty. Prerequisites: **CRIM 340 and CRIM 355**.

**CRIM469 CRIMINAL PROCEDURE AND EVIDENCE****3 sem. hrs.**

Students engage in a detailed study and analysis of the rules and principles of American criminal procedure and evidence, focusing on constitutional limits on governmental power contained in the Fourth, Fifth, and Sixth Amendments. Topics include the constitutional rights of those suspected or accused of a crime, the proper collection of evidence, the basic rules of admissibility of evidence, and the historical development of rules of criminal procedure. Prerequisite: **CRIM100** or **POLI343** or permission of the instructor.

**CRIM470 ADVANCED ISSUES IN CORRECTIONS****3 sem. hrs.**

This course presents a critical and in-depth analysis of current correctional issues and dilemmas that face our country today. The focus of the course will be in areas of problem analysis, problem solving, and decision making. A number of issues will be examined during the course including, but not limited to, the following: overcrowding, sentencing policy, sentence disparity, prison adjustment, recidivism, community-based corrections and intermediate punishments, the use of surveillance and technology, the mentally ill offender, the elderly offender, the privatization movement, prison siting, and the effectiveness and utility of treatment and rehabilitation. Prerequisites: **CRIM100** and **CRIM210**.

**CRIM475 RESEARCH METHODS IN CRIMINAL JUSTICE AND CRIMINOLOGY****3 sem. hrs.**

This course will introduce the student to a variety of quantitative and qualitative research methodologies. Sampling, reliability, validity, causality, ethical considerations of the research endeavor, and other topics will be presented. The emphasis of the course will be on the process of designing research and the familiarization with a number of data collection strategies. Prerequisites: **CRIM100**, **CRIM210**, **CRIM230**, **CRIM265**, **CRIM295** & **SOC232**.

**CRIM480 CORRECTIONAL ADMINISTRATION****3 sem. hrs.**

This course examines the dynamics of corrections organizations and evaluates the images and attitudes of corrections from administrative and managerial perspectives. Through the use of case studies and practical examples, students will learn about the past, present, and future of corrections, the functions of correctional administrators, and the issues that drive administrators to create new operational approaches to new challenges. Prerequisites: **CRIM100**, **CRIM210**, and Junior or Senior-Level Status.

**CRIM485 FINANCIAL CRIMES ENFORCEMENT****3 sem. hrs.**

This course will predominantly focus on providing our students with a basic grounding in the laws and theories related to money laundering. This course will also teach how to utilize information provided within Suspicious Activity Reports (SARs), published under the auspices of the Bank Secrecy Act Advisory Group, and Currency Transaction Reports (CTR) generated by the Financial Crimes Enforcement Network, to identify, and track the intricacies of new money laundering techniques, and the means employed by the government to disrupt such activity. Prerequisites for Undergraduates: **Introduction to Criminal Justice (CRIM 100)** and **Criminal Investigation (CRIM 340)**; Prerequisites for Graduates: **Business Law (BUAD 360)**

**CRIM490 INDEPENDENT STUDY****1-6 sem. hrs.**

The Independent Study program aims to serve those students whose scholarly bent seems most clearly adapted to independent work. Students are permitted to resolve problems and to earn credit for work performed outside the classroom requirement of any specific course in the curriculum.

**CRIM500 SEMINAR IN CRIMINAL JUSTICE****3 sem. hrs.**

This capstone course is designed to refresh the criminal justice major's recollection of foremost criminal justice and crime topics previously covered in other criminal justice courses, but with an emphasis on bringing all of the various topics together in a systematic fashion in a single advanced course. The course is student-centered and as such, students will complete written and verbal assignments that may include individual and group work. Prerequisites: **CRIM100**, **CRIM210**, **CRIM230**, **CRIM265**, **CRIM295**, **CRIM475** and **SOC232**.

**CSCI104 ESSENTIAL COMPUTING I****3 sem. hrs.**

This course familiarizes students with personal computer (PC) terms, and the use of Internet applications, and electronic mail applications. Emphasis is placed on the use of PC productivity software (word processing, spread sheet management, file management, and presentation software). Prerequisite: **MATH 100** or placement into **MATH 104** or higher and placement into **ENGL101** or higher. This course is approved for General Education - Computer Competency.

**CSCI105 ESSENTIAL COMPUTING I (ALTERNATE)****3 sem. hrs.**

This course familiarizes students with personal computer (PC) terms, and the use of Internet applications, and electronic mail applications. Emphasis is placed on the use of productivity software including word processing, and presentation software. Credit toward graduation cannot be received for both **CSCI105** and **CSCI104**. Prerequisite: **MATH 100** or placement into **MATH 104** or higher and placement into **ENGL101** or higher. This course is approved for General Education – Computer Competency. Permission of OSD required.

**CSCI123 INTRODUCTION TO WEBSITE DEVELOPMENT****3 sem. hrs.**

This course introduces the student to website development covering topics: Internet and its architecture, standards effecting websites, website design issues, and implementation of a website. Students will put to use the skills learned by creating small website. Prerequisite: **MATH 100** or placement into **MATH 104** or higher and placement into **ENGL101** or higher. This course is approved for General Education – Computer Competency.

**CSCI125 INTRODUCTION TO COMPUTER SCIENCE****3 sem. hrs.**

This course provides an introduction to and preliminary investigation of the fundamental concepts of computer science. An overview of computer science sub-disciplines such as algorithms (problem solving), artificial intelligence, computer organization and architecture, languages, operating systems, networks, software engineering (programming concepts) and databases are covered. The course introduces the history of computing and considers computing in a social context. Prerequisite: **MATH 100** or placement into **MATH 104** or higher and placement into **ENGL101** or higher. This course is approved for General Education – Computer Competency.

**CSCI130 PRINCIPLES OF PROGRAMMING I****3 sem. hrs.**

This course introduces computer programming using a structured language. It integrates techniques of algorithm design and development, procedural and data abstraction, good programming style, testing, and debugging. Topics will also include data types, control structures, subprograms, documentation and coding techniques, and elementary data structures. Prerequisites: **MATH100** or placement into **MATH104** or higher.



**CSCI204 ESSENTIAL COMPUTING II 3 sem. hrs.**

This course is a continuation of CSCI104. Topics include a survey of computer hardware and software, computer programming, Internet applications, and computer networking. Special attention will be paid to data management software and integration of PC application packages. Prerequisite: **CSCI104**.

**CSCI207 PROGRAMMING IN VISUAL BASIC 3 sem. hrs.**

This course is a first course in computer programming using the Visual Basic(VB) Language and an integrated development environment. Visual Basic is an object-oriented and event driven programming language. Students learn the VB supplied user interface objects and events for program control in combination with conventional programming techniques found in procedural programming languages. Emphasis is placed on applied problem solving, usability and design of Graphical User Interfaces, and program design. Pre-requisite: **CSCI125 or CSCI204**. Note: Students with credits in CSCI 117 may not take this course to fulfill degree requirements.

**CSCI230 PRINCIPLES OF PROGRAMMING II 3 sem. hrs.**

This course continues CSCI130. Topics include user-defined data types, data structures including lists, stacks and queue, several sorting and searching algorithms, pointers, and introduction to object oriented programming, the standard template library, and recursion. Prerequisite: **CSCI125 and CSCI130**.

**CSCI280 PRINCIPLES OF PC DESKTOP SYSTEM OPERATION AND ADMINISTRATION 3 sem. hrs.**

This course acquaints students with the operation of the Personal Computer (PC). It emphasizes hardware components of PC computer systems. It covers PC operating systems. It covers PC operating system software, interfaces to peripherals, administration, and troubleshooting. The course also has a focus on networking and security issues in the personal computing environment. This course takes the student down the path toward professional certifications starting with the Comp TIA A+ certification and leading toward Microsoft Certified Professional (MCP) and Microsoft Certified System Engineer (MCSE). (However, taking the tests and obtaining the certifications are left to the student.) Prerequisite: **CSCI130 or CSCI207**.

**CSCI308 SYSTEMS ANALYSIS 3 sem. hrs.**

This course introduces systems terminology and analytical techniques. Topics include: tools of the analyst; problem identification techniques; structural and dynamic process and data modeling; system requirements determination; system performance analysis; project feasibility; cost analysis; design considerations; component selection; and system documentation. Note: Students may not take both CSCI 208 and CSCI 308 to fulfill degree requirements. Prerequisite: **CSCI230**

**CSCI310 SCRIPT AND SYSTEMS PROGRAMMING 3 sem. hrs.**

This course introduces students to communicating with operating systems through an application programming interface (API). Students will write programs in high level programming languages to interact with various operating systems. Additionally, students will study script programming with a focus on interacting with and configuring operating systems and performing systems administration tasks. Prerequisites **CSCI 230 and CSCI 280**.

**CSCI312 COMPUTER ORGANIZATION AND ARCHITECTURE I 3 sem. hrs.**

This course introduces the structure and organization of modern computers. Topics include digital logic, sequential and combinational circuits, assembly language programming, basic machine organization, data representation, memory organization, fundamentals of input and output, and introduction to parallel architectures. Prerequisite: **CSCI 230**

**CSCI313 DATA BASE MANAGEMENT SYSTEMS 3 sem. hrs.**

This course presents the concepts and features of software systems known as data base management systems and their relationship to management information system applications. Topics include storage structures, data base definition, creation, implementation maintenance, retrieval, concurrency control, security and recovery. Note: May not take both CSCI213 and CSCI313 to fulfill degree requirements. Prerequisite: **CSCI230**.

**CSCI323 WEBSITE DEVELOPMENT 3 sem. hrs.**

This course is a continuation of CSCI123. Students will learn and apply more advanced tools and techniques to produce a complete website integrating a pre-built database and dynamic content. Course content will be explored through a case study team project. Prerequisite: **ENGL101, CSCI123, and CSCI130 or CSCI207**.

**CSCI325 WEB SERVER ADMINISTRATION 3 sem. hrs.**

This course introduces students to the theory and practice of installing, configuring and maintaining network services required to support a web site. Students will install, configure, optimize and perform restorable system backups for various software services on multiple operating systems. Prerequisites: **CSCI230, CSCI280**

**CSCI330 OBJECT-ORIENTED PROGRAMMING 3 sem. hrs.**

This course provides a comprehensive study of object-oriented programming incorporating data structures and the standard template library. Topics include object-oriented concepts, object-oriented design, analysis and programming. Students prepare large programming assignments directed to develop competence in the concepts and language. Prerequisite: **CSCI230**.

**CSCI340 GAME PROGRAMMING 3 sem. hrs.**

This course is designed to familiarize the student with the programming tasks involved in developing computer games. Topics will include: advanced C++ programming, event-loop programming, artificial intelligence, static and dynamic 3D graphics programming. A game development environment will be employed by teams of students to implement a working game. Prerequisite: **CSCI 330**

**CSCI354 AUTOMATA 3 sem. hrs.**

This course introduces the fundamental concepts in automata theory and formal languages including finite automaton, regular expressions, regular languages, pushdown automaton, context-free languages, Turing machines, recursive languages, computability and solvability. Prerequisite: **CSCI130 or CSCI207 and MATH370**.

**CSCI360 INTRODUCTION TO COMPUTER GRAPHICS 3 sem. hrs.**

This course introduces students to the practices and underlying principles of computer graphics. Fundamental algorithms for generating two and three dimensional scenes are discussed. A standard graphics Application Programming Interface (API) is presented and used to develop projects. Prerequisites: **CSCI230 and MATH275**.

**CSCI370 ARTIFICIAL INTELLIGENCE 3 sem. hrs.**

This course provides a broad introduction to artificial intelligence as well as covering fundamental techniques underlying intelligent systems. The course also provides a more in-depth look at one or more subareas such

as intelligent agents, machine learning, natural language processing, and robotics. Prerequisite: **CSCI230**.

**CSCI380 OPERATING SYSTEMS**  
3 sem. hrs.

This course introduces operating system concepts and implementations (data structures and algorithms). It covers process management, memory management, storage management and security. Case studies of current operating system implementations will be reviewed. Prerequisite:

**CSCI385 DATA STRUCTURES AND ANALYSIS OF ALGORITHMS** 3 sem. hrs.

This course systematically studies the relationships between algorithms and data structures. Topics include the complexity and limitations of algorithms and various methods of representing and manipulating information in memory and auxiliary storage. Prerequisites: **CSCI330** and **MATH270**.

**CSCI397 TOPICS IN COMPUTER SCIENCE** 3 sem. hrs.

This course presents topics in computer science suitable for juniors or seniors. Content varies according to the interests and needs of the participants. BSCS majors may take the course no more than twice to satisfy major elective requirements. Prerequisites: junior standing and permission of the instructor.

**CSCI401 PROGRAMMING IN C#**  
1 sem. hrs.

This course introduces computer programming in C# to students familiar with another object-oriented programming language. Topics include namespaces, static and anonymous classes, values and references, enumerations and structures, collection classes, parameter arrays, and garbage collection. Students complete a large programming project in C# using an integrated development environment. Prerequisite: **CSCI330**.

**CSCI402 PROGRAMMING IN JAVA**  
1 sem. hrs.

This course introduces computer programming in Java to students familiar with another object-oriented programming language. Topics include namespaces, static and anonymous classes, values and references, enumerations and structures, classes, arrays, and garbage collection. Students complete programming projects in Java. Prerequisite: **CSCI330**

**CSCI403 OPEN SOURCE PROJECTS** 1 sem. hrs.

This course introduces students to open source projects. The course will explore tools used in open sources projects, evaluation of open source projects, and effective participation in an open source project. Special attention will be given to humanitarian projects. Prerequisite: **CSCI 230**.

**CSCI408 SOFTWARE ENGINEERING** 3 sem. hrs.

This course introduces the software development life cycle by applying the principles of each phase to a real software project. The course begins with an in-depth examination of requirements analysis and specifications, architectural design and detailed software design. Implementation, testing and maintenance issues of a substantial software system will follow. Other topics include: project scheduling, personnel management, effort estimation and risk management. Prerequisite: **CSCI 330**.

**CSCI410 PROGRAMMING LANGUAGES** 3 sem. hrs.

This course provides an extensive overview of programming languages with a focus on language translation, language design, and alternative programming paradigms. In addition to the broader topics of syntax, semantics, and translation to machine architecture and implantation, language design issues in control and data models, data typing, and abstraction mechanisms will be covered. An exposure to one or more programming languages representative of different paradigms such as object-oriented, functional, logic, and scripting will be covered. Prerequisite: **CSCI330** and **MATH270**.

**CSCI412 COMPUTER ARCHITECTURE II**  
3 sem. hrs.

This course extends and builds upon CSCI312 by examining parallel computing architectures both historic and current. Topics include instruction level parallelism, multiprocessors, vector processors, clusters and constellations. Topics impacting parallel performance, such as networks, switches and memory will also be discussed. Simple parallel programs will be written. This course will include current papers academic and technical in parallel architectures, programming and applications. Prerequisites: **MATH270** and **CSCI312**.

**CSCI423 WEB APPLICATION ENGINEERING** 3 sem. hrs.

This course integrates topics covered in CSCI323 and CSCI313. Students will apply prerequisite knowledge to develop and implement a complete e-commerce web site. Course content will be explored through a real world team project. Pre-requisite: **CSCI323** and **CSCI313**

**CSCI425 NETWORK SYSTEM OPERATION AND ADMINISTRATION**  
3 sem. hrs.

This course introduces students to the principles and practices of operating a small to medium sized network of computers. Topics include network services to support user accounts in a networked system. Network hardware

installation and support is also discussed. Students will install and configure systems and services related to the topics discussed on multiple operating systems. Issues involving operating system interoperability and security will be explored. Prerequisites: **CSCI310** and **CSCI325**.

**CSCI430 INTRODUCTION TO COMPILER DESIGN**  
3 sem. hrs.

This course introduces the basic concepts of compiler design and implementation – lexical analysis, syntactic and semantic analysis, intermediate code generation, optimization and target code generation. It presents topics from an implementation viewpoint. Students construct a compiler for a small language using Standard compiler generation tools. Prerequisites: **CSCI330** and **MATH270**.

**CSCI440 INTRODUCTION TO GAME DESIGN/ DEVELOPMENT**  
3 sem. hrs.

This course introduces the student to the processes involved in the development of video games. Topics will include conceptualization and storytelling, game play and interactivity, game theory, game physics, the use of sound in games, and the social/societal issues surrounding games. Emphasis will be placed on the fundamentals of both the artistic and technical perspectives of game design. Prerequisite: **CSCI340** and **MATH 211**.

**CSCI475 DATA COMMUNICATIONS AND NETWORKING**  
3 sem. hrs.

This course provides an overview of the basic principles and technologies of data communications and networking systems. Topics include transmission techniques, multiplexing, flow and error control, routing and congestion control. The course will introduce switched, broadcast and wireless networking technologies. TCP/IP and the OSI protocol architectures will be investigated. Prerequisites: **CSCI312** and **MATH270**.

**CSCI480 COMPUTER SCIENCE SEMINAR** 3 sem. hrs.

This seminar introduces upper level computer science majors to the principles of computer science research. Emphasis is on reading and presenting current research literature, formulating research problems, conducting a literature search using both library and Internet resources, and writing up the results of scientific inquiry. Additionally, social, ethical and legal issues in computing will be explored. Readings on a topical theme are selected by the instructor and vary from year to year, depending on the evolution of the frontiers of the science. Prerequisite: Students should have completed at least 18 hours of computer science courses and **MATH270**.

**CSCI485 SENIOR PROJECT IN GAME DEVELOPMENT**  
3 sem. hrs.

This capstone course is designed to allow students to integrate the design, development and implementation concepts addressed within the game development curriculum into a functional software system. Students will work in groups to conceptualize a computer game, generate the design to include both technical and creative aspects, and begin implementation. Prerequisite: **CSCI440, MATH 300 and ART 348.**

**CSCI490 INDEPENDENT STUDY**  
2-6 sem. hrs.

This experience is designed to meet the needs of students who wish to prepare individual studies or projects in the field of computer science under the direction of a member of the faculty of the Department of Mathematics and Computer Science. It is the student's responsibility to complete the required forms and to submit them for approval.

**CSCI496 INTERNSHIP IN COMPUTER SCIENCE**  
3-15 sem. hrs.

The internship in computer science is intended to give the student an opportunity for on-the-job experience in theoretical or applied computer science. The internship shall incorporate meaningful productive experience usually during the junior year. Time spent and the nature of the experience is usually under the control of the local agency and is used in the determination of the amount of credit obtained. In addition to the hours spent on the job, the student shall also be responsible to the department Internship Coordinator. Prerequisite: Permission of the department Internship Coordinator.

**- E -**

**ECED110 CHILD DEVELOPMENT I**  
3 sem. hrs.

This course engages students in studying the characteristics and needs of children birth thru age five. Students study theories of physical, cognitive, language, social, and emotional development. Emphasis is placed on knowing and understanding multiple influences on development and learning. Students use observation techniques to collect and analyze data to evaluate learning environments are healthy, respectful, supportive, and challenging. This course includes 10 hours of observation for Level I field. Students with ELED 180 may not take ECED110 for credits. Prerequisite: **PSYC101.**

**ECED120 INTRO. TO EARLY CHILDHOOD EDUCATION** 3 sem. hrs.

This course examines the historical and contemporary perspectives of early childhood education (Pre-K through 4th grade). It addresses developmentally appropriate practices, diverse populations, models of early childhood education, and lesson planning for diverse populations. Students also learn to plan for inclusive learning environments and apply models of child guidance through observation and analysis. This course includes 10 hours of observation for Level I field experiences. Students who have taken ELED275 may not take ECED 120 for credit.

**ECED150 CHILD DEVELOPMENT II**  
3 sem. hrs.

This course engages students in studying the characteristics and needs of children ages six through ten. Theories of cognitive, social, emotional, and physical development related to education, socialization, and cultural contexts are examined. Students use observational techniques and case study to collect and analyze data as they explore the theoretical foundations of child development. This course includes 10hours of observation for Level I field experiences Prerequisite: **PSYC 101, ECED 110.**

**ECED200 PLANNING, DESIGNING AND MANAGING THE EARLY CHILDHOOD LEARNING ENV.** 3 sem. hrs.

This course prepares candidates to construct cohesive lesson plans aligned with Academic Standards, and select appropriate resources and materials. Emphasis is placed on designing a classroom environment that addresses social, economic, and cultural diversity and their implications on planning and student learning. The importance of establishing effective management strategies and routines is stressed. Prerequisites: **ECED110, 120, 150.** This course requires six hours of Level I field experience and concurrent enrollment in ECED210 and 244.

**ECED210 PLAY AND ACTIVE LEARNING APPROACHES TO EARLY CHILDHOOD EDUCATION** 3 sem. hrs.

The rationale and value of play centered and active learning approaches for young children are examined, and the dynamics and categories of play as defined by classical and contemporary theories. Motor skills, cognitive abilities, creativity, and social-emotional factors influencing children's play are presented. Students explore how play and projects can be integrated into the curriculum of preschool through fourth grade. This course requires six hours of Level II field experience.

**ECED244 BUILDING PARTNERSHIPS THAT SUPPORT YOUNG CHILDREN** 3 sem. hrs.

This course prepares students to work with young children and their families in Head Start; public and private infant through preschool programs; and primary classrooms. The course content focuses on the family's influence on children's early development and educations, the diversity among today's families, and strategies for building supportive partnerships among the family, early childhood programs and community. Prerequisites: **ECED110, 120, 150 and SPED 210.** This course requires six hours of level II field experience and concurrent enrollment in ECED200 and 210. Students who have taken ELED 344 may not take this class.

**ECED270 LITERACY FOUNDATIONS FOR GRADES 1-4** 3 sem. hrs.

This course is designed to provide candidates with a research and standard-based understanding of reading instruction essential for success for children from grades one through four. The course provides instruction in the major areas of reading, effective programs, materials, approaches, and a variety of strategies for a diverse population. Prerequisites: **ECED200, 210, 244, SPED210 and PK/K block field experience Level III.** This course requires six hours of level II field and concurrent enrollment in ECED 290. Candidates who have taken ELED370 may not take this course.

**ECED290 LANGUAGE ARTS FOR GRADES 1-4** 3 sem. hrs.

This course focuses on literacy instruction involving listening and speaking, writing, spelling and grammar skills. The emphasis of the course is to provide candidates with a research and standard-based understanding that the use of language arts is essential in all academic areas for children from grades one through four. Prerequisites: **ECED 200, 210, 244, SPED 210 and PK/K block level III field experience.** This course requires 6 hours of level II field experiences and concurrent enrollment in ECED 270. Candidates who have ELED 390 may not take this course.

**ECED340 METHODS OF TEACHING SOCIAL STUDIES** 3 sem. hrs.

This course introduces teacher candidates to social science content knowledge and procedures used to teach children from Pre-K to fourth grade. Topics include philosophy of social studies education, curriculum planning and organization, standards, effective instruction and assessment. Emphasis will be placed on choosing resources that differentiate instruction to meet the needs of all learners. Prerequisites: **ECED270, 290, completion of the PK/K block field experience and concurrent enrollment in the Primary**

**Methods Block with level III field experience.** Students who have taken ELED 340 may not take this class.

**ECED341 LANGUAGE AND LITERACY 3 sem. hrs.**

This course examines language as the basis of all learning and provides a comprehensive study of children's literacy acquisition from birth through age 10. It includes the psychological and socio-cultural factors affecting the development and acquisitions of literacy. It emphasizes the conceptual, experiential and language foundations for learning to read and write. Prerequisites: **ECED110, 120, 150, 200, 210, 244, and SPED210, and concurrent enrollment in PK/K block level III field experience.** Students who have taken ELED 341 may not take this course.

**ECED342 INTERGRATING MATH/SCIENCE IN THE EARLY YEARS 3 sem. hrs.**

This course examines the natural integration of mathematics and science in early childhood education and prepares prospective preschool and kindergarten teachers to make informed decisions regarding theories, content, instructional methodologies, curricular resources, management procedures, and practical applications for implementing instruction for diverse learners in preschool and kindergarten classrooms. Prerequisites: **ECED 110, 120, 150, 200, 210, 244, SPED210 and concurrent enrollment in the PK/K Block with Level 3 field.** Students who have taken ELED342 may not take this course.

**ECED343 CREATIVE EXPRESSIVE ARTS 3 sem. hrs.**

This course presents the rationale and value of integrating the arts into the classroom curriculum. Students examine the nature of creativity, the elements of music, and the elements and principles of art. This course teaches methods of creating assessment based instruction to promote artistic activities as well as adapting activities for special needs and ELL students. Prerequisites **ECED 110, 120, 200, 210, 244, SPED210 and concurrent enrollment in PreK/K block level3 field experience.** Students with credit in ELED 310, 315 or 343 cannot take ECED343 for credit.

**ECED345 ADVOCACY AND GUIDANCE: SUPPORTING POSITIVE EXPERIENCES FOR YOUR CHILDREN 3 sem. hrs.**

This course prepares candidates to be advocates for children and quality early education experiences. Practices and procedures for effective advocacy are addressed. Appropriate guidance classroom management strategies consistent with quality early learning experience are stressed. Prerequisites: **ECED 110, 120, 150, 200, 210, 244, SPED210 and concurrent enrollment in PREK-K Block field experience LEVELIII.**

**ECED350 LEARNING AND TEACHING MATHEMATICS IN GRADES 1-4 3 sem. hrs.**

This course prepares prospective teachers of mathematics to make informed decisions regarding theories, content, instructional methodologies, curricular resources, classroom management procedures, assessment techniques, and practical applications when designing, developing, and implementing instruction for diverse learners in PK-4 classrooms. Prerequisites: **ECED270 and 290, completion of the PK/K block field experience and concurrent enrollment in the Primary/Methods Course Block with Level III Field.** Students who have taken ELED 350 may not take this class.

**ECED360 LEARNING AND TEACHING SCIENCE IN GRADES 1-4 3 sem. hrs.**

This course utilizes national and state standards, and hands-on, minds-on inquiry investigations to effectively prepare teacher candidates to use accurate subject matter content and assessment techniques when designing, developing, and implementing instruction for diverse learners in grades 1-4 classrooms. Prerequisites: **ECED270 and 290, completion of the PK/K block, and concurrent enrollment in the primary/Methods Course Block with Level III field.** Students who have taken ELED 360 may not take this class.

**ECED370 DIFFERENTIATED READING INSTRUCTION FOR GRADES 1-4 3 sem. hrs.**

This course presents candidates with an understanding of how to help students who are experiencing difficulties in achieving readings success and enhance programs for advanced students. Candidates will become knowledgeable of differentiated instruction, a variety of assessments, evidence-based instructional practices, and programs for intervention. Prerequisites: **ECED270, ECED290 and PK/K block and concurrent enrollment in the Primary/Methods Block with Level III field.**

**ECED380 DATA-DRIVEN ASSESSMENT FOR STUDENT LEARNING 3 sem. hrs.**

This course investigates the nature and scope of assessment practices used in classrooms with primary-age children. Guiding principles and discussions of assessment types provide a framework for the development of effective practices. Students learn to use data as an informative source in planning and teaching. Attention is given to the collection and

interpretation of data for instruction, grouping and administrative purposes. Prerequisites: **ECED270 and 290, completion of the PK/K block field experience and concurrent enrollment in ECED495 and SPED495.** Students who have taken ELED380 may not take this class.

**ECED381 OBSERVATION, DOCUMENTATION AND ASSESSMENT IN EARLY CHILDHOOD EDUCATION 3 sem. hrs.**

This course identifies appropriate assessment strategies used to evaluate cognitive, physical, and psychosocial development of children, birth through age 7, and considers implications for curriculum planning. It explores the use of systematic observations, documentation and other effective assessment strategies. Prerequisites: **ECED110, 120, 150, 200, 244, SPED 210 and concurrent enrollment in PreK/K Block field experience Level III.** Students who have taken ELED 580 may not take this class. Candidacy required.

**ECED495 STUDENT TEACHING 3 sem. hrs.**

This culminating experience is coordinated and supervised by University faculty and provides opportunities for teacher candidates to display competency in teaching young children (grades PreK-4) under the direct daily supervision of a qualified cooperating teacher. This course is part of professional block and provides the Stage 4 Field Experience. Prerequisite: candidacy and concurrent enrollment in ECED380.

**ECON100 ELEMENTS OF ECONOMICS 3 sem. hrs.**

This course provides an introduction to the fundamental methods and concepts of economics. It includes basic elements of macro, micro, and international economics and emphasizes the application of economic analysis to relevant issues. This course is not a substitute for ECON225 or ECON220 and may not be taken by students who already have taken either ECON225 or ECON220. This course is approved for General Education – Core 3.

**ECON220 PRINCIPLES OF MICROECONOMICS 3 sem. hrs.**

This course examines concepts and issues in the operation of the microeconomy. Topics include an analysis of demand and supply theory, measures of elasticity, consumer theory, production costs, price and output determination under different forms of market structure, and the operation of resource markets. This course is approved for General Education – Distribution 2.

**ECON225 PRINCIPLES OF MACROECONOMICS****3 sem. hrs.**

This course presents the fundamental principles of macroeconomic analysis, knowledge necessary for a general understanding of the aggregate economy. Topics presented include national income accounting, international economics, business cycles, unemployment and inflation, macroeconomics models, and monetary economics. Coverage includes an understanding of institutions, theoretical models and policy issues. This course is approved for General Education - Distribution 2.

**ECON310 INTERNATIONAL ECONOMICS****3 sem. hrs.**

The objective of the course is to study the economic basis for trade among nations, commercial policy, and international finance. The role and mechanism of international trade, trade barriers (tariffs and other interferences), the effect on the economies, exchange rate, balance of payments disturbances, international capital flows and the institutions designed to facilitate international trade are examined. Prerequisite: **ECON220**.

**ECON319 INTERMEDIATE ECONOMIC THEORY – MACROECONOMICS****3 sem. hrs.**

This course includes an analysis of macroeconomic theory and policy with emphasis on aggregate income, employment, the rate of economic growth, and the general price level. Prerequisites: **ECON220**, **ECON225** and **MATH 150** or permission of the instructor.

**ECON320 INTERMEDIATE ECONOMIC THEORY – MICROECONOMICS****3 sem. hrs.**

This course studies intensively the theory of value and distribution using partial and general equilibrium techniques of analysis. Topics include the theory of demand and consumer behavior, the theory of cost and production, pricing in various market structures, the theory of factor markets, and the role of risk and uncertainty, strategic behavior, and asymmetric information. Prerequisite: **ECON220** and **MATH 150** or permission of the instructor.

**ECON325 BUSINESS, GOVERNMENT AND PUBLIC POLICY****3 sem. hrs.**

This course deals with the relationship between governments and firms in a market economy and studies current laws and regulations with basic principles of public policy formulation. Topics include the rationale for public economic policy, antitrust, industrial regulation, and environmental regulations. Prerequisite: **ECON220**.

**ECON330 LABOR ECONOMICS****3 sem. hrs.**

This course in applied micro- and macro-economic theory deals with the general question of resource allocation and the determination of prices and levels of production in the economy. It focuses on the organization, functioning and outcomes of labor markets, the decision of labor market participants, and public policies related to labor resources. Prerequisite: **ECON220**.

**ECON335 HISTORY OF ECONOMIC THOUGHT****3 sem. hrs.**

This course analyzes the major contributions to economics such as the theories of Mercantilism, Physiocracy, Classical Economists, Neoclassical Economists, Marginalists, Institutional Economists, Monetary Economists and Contemporary Economists. Prerequisite: **ECON220**.

**ECON345 MONEY AND BANKING****3 sem. hrs.**

This course introduces the banking system and the role of money in a market economy. The course deals with the nature of money, the commercial banking system, financial markets, the Federal Reserve System, monetary theory and policy, and the international monetary system. Prerequisite: **ECON220** and **ECON225**.

**ECON355 ECONOMIC GROWTH AND DEVELOPMENT****3 sem. hrs.**

This course studies some of the theories, evidence, and policies of economic growth and development. Topics include review of theories from the Mercantilists to contemporary development theories; historical evidence of the economic growth and development in the U.S., Western Europe, and newly industrialized countries; and developing countries' policies, problems, and prospects. Prerequisite: **ECON220**.

**ECON365 ENERGY ECONOMICS AND POLICY****3 sem. hrs.**

The primary purpose of this course is to instruct students in the economic aspects of energy issues. Established techniques of microeconomics will be applied to analyze energy resources as scarce inputs in production, studied and evaluated with regard to economic efficiency. Prerequisite: **ECON220** or permission of the instructor.

**ECON370 CONTEMPORARY ECONOMIC PROBLEMS****3 sem. hrs.**

This course studies some of the most significant contemporary economic questions

facing the American people. Examples of such topics include: the role of government in the economy, inflation and deflation, balance of international payments, federal budget deficits, environmental economic issues, and the economics of health care. Students who successfully complete **ECON251** may not register for this course. Prerequisite: **ECON100** or **ECON225**. This course is approved for General Education – Distribution 2.

**ECON380 MANAGERIAL ECONOMICS****3 sem. hrs.**

The application of economic analysis to the formulation and solutions of business problems in the areas of decision making and planning. Topics discussed include: demand analysis, forecasting, production, capital budgeting, capital investment, competition, cost, pricing, and profits. Prerequisite: **ECON220**.

**ECON410 ECONOMIC FORECASTING****3 sem. hrs.**

The primary objective of this course is to provide the student with a comprehensive introduction to Economic Forecasting. This includes exposure to the relevant theory, statistical and other quantitative techniques, and appropriate sources of data. Those students taking this course for graduate credit will be expected to complete additional work. Graduate students will demonstrate a deeper understanding of the complexities of economic forecasting. Prerequisites: **ECON220** and **QUAN340**.

**ECON420 ECONOMETRICS****3 sem. hrs.**

This course introduces the application of modern mathematical and statistical methods for the analysis of economic and business problems. Topics include exposure to simple and multiple linear regression analysis along with the related issues of residual analysis, tests of model significance, estimation, dummy variable analysis, and hypothesis testing. Emphasis is placed on the empirical estimation and validation of regression models with applications to the analysis of business and economic decision-making. Students will use statistical software for the estimation and analysis of econometric models. Prerequisites: **ECON220**, **QUAN340** or **MATH360**, **CSCI104** or equivalent computing experience.

**ECON490 INDEPENDENT STUDY IN ECONOMICS****1-3 sem. hrs.**

Individual readings in a specified area of economics, and/or the completion of a research project under the guidance of a faculty member.

**ECON495 INTERNSHIP IN ECONOMICS 3-15 sem. hrs.**

The economics internship provides students with an on-the-job learning experience in a commercial firm, government agency, or institution. Interns have an opportunity to apply classroom learning in a practical work environment. Economics interns must have earned 60 credits, with at least 15 of those credits taken at Edinboro University, and including a minimum of 9 credits in upper-level (310 or above) economics electives courses (section II.B of the curriculum requirements). A minimum 2.6 grade point average in his/her major and a 2.4 grade point average overall is required. Application approval will be in accordance with University policy.

**ECON508/ POLI508 PUBLIC FINANCE 3 sem. hrs.**

This course consists of the study of the public economy at the national, state, and local levels. It will analyze the role of government in attaining an efficient allocation of resources and an equitable distribution of income. Topics will include taxation, government expenditure, public debt, pricing of government services, international fiscal relations, and the role of government in a market economy. Prerequisite: **ECON220**.

**ECON550 SEMINAR ON EUROPEAN ECONOMY 3 sem. hrs.**

This course deals with currently developing economic issues in Europe related to economic growth, relationship between western and eastern European blocks, economic integration and its impact on the world economy. Prerequisite: **ECON220** or equivalent background.

**ENGL010 BASIC WRITING SKILLS 3 sem. hrs.**

This competency-based course emphasizes the application of grammatical principles needed by those students identified as lacking the skills essential for ENGL101. Other students may wish to select this course because they lack confidence in their ability to make use of the writing skills required for effective college writing assignments. Credits do not count toward graduation.

**ENGL013 ADVANCED INTENSIVE ENGLISH 3 sem. hrs.**

An advanced course in English as a foreign language for international students who have successfully completed the requirements of **ENGL012** or who have obtained an 80 or more modified score on the Michigan English Language Proficiency Test or other equivalent instrument. Students reaching this level of proficiency might be well served by also enrolling in **SEDU102**. This course is offered on a Satisfactory/Unsatisfactory grading basis only, and the credits do not count toward graduation.

**ENGL101 COLLEGE WRITING SKILLS 3 sem. hrs.**

This competency-based course is a study of the organization and development of ideas in written composition, beginning with the paragraph and proceeding to the full-length paper. In this course, students develop the writing skills needed to prepare expository writing assignments, including college-level themes and essay examinations. Concurrently, students develop the reading competencies needed for a functional understanding of the texts and other resource materials used in this course. Prerequisite: Successful completion of **ENGL010** or English Department placement. This course is approved for General Education – Skills.

**ENGL102 SPECIALIZED COLLEGE WRITING AND RESEARCH SKILLS 3 sem. hrs.**

This competency-based course is a practical study of the methodology of research with emphasis on library usage, research techniques, organizational principles, documentation, and manuscript form. In this course, students develop the writing skills needed to prepare various specialized writing assignments including the fully documented library research paper, which is the major writing form of the course. Prerequisite: Successful completion of **ENGL101** or equivalent competency. This course is approved for General Education – Skills.

**ENGL103 COLLEGE WRITING SKILLS – ADVANCED 3 sem. hrs.**

This advanced competency-based course will require the student to develop the writing skills necessary to prepare superior college writing assignments. Student writing will focus on the development and organization of ideas in paragraphs and full-length critical and analytical papers. This course will require the student to achieve the level of skills necessary to progress to the more advanced techniques of writing research papers in **ENGL104**. Prerequisite: University Testing Placement. This course is approved for General Education – Skills.

**ENGL104 SPECIALIZED COLLEGE WRITING AND RESEARCH SKILLS – ADVANCED 3 sem. hrs.**

This advanced competency-based course is an intensive study and implementation of the techniques of critical research with emphasis on analysis, the principles of organization and synthesis, documentation, and manuscript form. The students will be required to compose longer papers with the fully documented

research paper being the major writing form of the course. Upon successful completion of this course, the student will be capable of demonstrating superior college writing and research abilities in all curricula. Prerequisite: Successful completion of **ENGL103**. This course is approved for General Education – Skills.

**ENGL115 INTRODUCTION TO LITERATURE 3 sem. hrs.**

This course introduces three major literary genres (drama, poetry, and prose fiction) with particular emphasis on their fundamental formal elements and conventions. Readings illustrate these elements and conventions, and enhance student appreciation and analysis of the artistic expressions. This course is approved for General Education – Core 1.

**ENGL116 AMERICAN PROSE CLASSICS 3 sem. hrs.**

Intended for non-majors, this course examines acknowledged masterpieces of American prose from the mid 19th century to the present. Students read selected works involving major social themes and concerns, and study the context of the cultural forces that inspired them. This course is approved for General Education – Core 3.

**ENGL117 INTRODUCTION TO FICTION 3 sem. hrs.**

This course introduces prose fiction. Students will become familiar with various narrative traditions; read and critically analyze short fiction, novellas, and novels; learn the functions of the elements of fiction; and compose a piece of short fiction or otherwise express their aesthetic appreciation of the genre. This course is approved for Core 1: Artistic Expression.

**ENGL118 INTRODUCTION TO POETRY 3 sem. hrs.**

This course introduces students to the forms, themes, and the creative process of traditional and contemporary poetry, emphasizing written appreciation and formal analysis. This course is approved for General Education – Core 1.

**ENGL119 INTRODUCTION TO CREATIVE NON-FICTION 3 sem. hrs.**

Creative Nonfiction focuses on critical reading and analysis of literary nonfiction, including New Journalism, the familiar essay, memoir, biography, and the "nonfiction novel." Students learn to recognize variations and originality of style, voice, and point of view of key writers of the genre. Attention will be paid to the way in which history, politics, and society have influenced nonfiction writing. This course is approved for General Education Core 1.

**ENGL120 MEDICAL TERMINOLOGY****3 sem. hrs.**

This medical vocabulary course is designed to enable the student to master techniques of deciphering and creating medical terms through a close study of combining forms. The course concentrates on the Greek and Latin roots, suffixes, and prefixes.

**ENGL201 AMERICAN LITERATURE SURVEY I (Origins-1865)****3 sem. hrs.**

An examination of major trends in American literature from its beginnings through 1865, emphasizing representative figures and their relationship to major literary movements and cultural developments.

**ENGL202 AMERICAN LITERATURE SURVEY II (1865-PRESENT)****3 sem. hrs.**

An examination of major trends in American literature from 1865 to the present, emphasizing representative figures and their relationship to major literary movements and cultural developments.

**ENGL205 MULTI-ETHNIC AMERICAN LITERATURE****3 sem. hrs.**

This course in ethnic literature includes representative works and writers from Native American, Hispanic, Asian American and African American communities, and traces their relationship to cultural concepts and literary movements. This course is approved for General Education – Core 5.

**ENGL209 FOUNDATIONS FOR LITERARY STUDY****3 sem. hrs.**

This course has four goals: to help students learn how to explicate texts and analyze various aspects of literary form; to help students understand English as a discipline; to help students acquire skills for writing about literature; and to help orient students to the English major at Edinboro University. Central to the course is a survey of the practice of literary criticism. This course is open to English and secondary education-English majors only.

**ENGL211 TRADITIONAL GRAMMAR****3 sem. hrs.**

This course provides students with an intensified study of English grammar based upon traditional principles and terminology to aid in the development of both knowledge and performance skills.

**ENGL213 THE LANGUAGE OF THE GODDESS****3 sem. hrs.**

This course acquaints students with the study of ancient and modern goddess cultures through approaches in anthropological linguistics. The concept of “goddess,” the centrality of the female, continues to be significant to many cultures and places where she has been venerated for ages. In others, she is being revitalized and reconstructed. The course content includes: a survey of ancient and modern languages and cultures; an analysis of goddess texts, lore, archetypes and symbolism; and an assessment of cultural developments of the feminine principle across the world.

**ENGL241 BRITISH LITERATURE I (ANGLO-SAXON THROUGH NEOCLASSICAL)****3 sem. hrs.**

This course studies early literary developments on England, from the early Middle Ages to the late 18th century, emphasizing major writers and their contributions to changing concepts of literary form and content. This course is approved for General Education – Distribution 1.

**ENGL242 BRITISH LITERATURE II (THE ROMANTICS THROUGH THE MODERNS)****3 sem. hrs.**

This course studies literary developments in England from the end of the 18th century to the present with emphases on major writers and their contribution to changing concepts of literary form and content. This course is approved for General Education – Distribution 1.

**ENGL260 LITERATURE OF THE CLASSICAL WORLD****3 sem. hrs.**

This course studies literary classics of Greece and Rome in translation and acquaints students with the traditions of our classical heritage. This course is approved for General Education – Distribution 1.

**ENGL261 LITERATURE OF THE RENAISSANCE****3 sem. hrs.**

A study of 16th- and 17th-century literature, including English and continental works of fiction, poetry, drama, and the essay.

**ENGL301 CREATIVE WRITING****3 sem. hrs.**

This course provides an introduction to the writing of poetry, fiction, and drama. Students will generate and revise rough drafts in each genre; learn the formal similarities and differences among them; read and discuss exemplary poems, stories, and plays; and further develop critical thinking and writing skills introduced in ENGL101. This course is approved for Distribution 1. Prerequisite: ENGL101.

**ENGL309 AFRICAN AMERICAN LITERATURE I: UPTO 1929****3 sem. hrs.**

This course studies African American literature from its beginnings to one of its greatest moments during the Harlem Renaissance. It emphasizes representative works and writers such as Phyllis Wheatley, Frederick Douglas, Langston Hughes, and Zora Neale Hurston, and traces their relationships to major literary movements and cultural developments. This course is approved for General Education – Distribution 1.

**ENGL310 AFRICAN AMERICAN LITERATURE II: AFTER 1930****3 sem. hrs.**

This course studies African American literature from 1930 to the present, and emphasizes representative works and writers such as Wright, Ellison, Morrison, and Reed. It traces their relationships to major literary movements and cultural developments. This course is approved for General Education – Distribution 1.

**ENGL311 LITERATURE BY WOMEN****3 sem. hrs.**

This course on literature by women includes representative works and writers and addresses recent changes in the canon. This course is approved for General Education – Distribution 1.

**ENGL315 SHAKESPEARE I****3 sem. hrs.**

An examination of selected comedies, histories, and tragedies from 1592-1602. This course is approved for General Education – Distribution 1.

**ENGL319 SHAKESPEARE II****3 sem. hrs.**

This course examines the plays after 1602, emphasizing historical, social, literary, textual, dramatic, and stylistic considerations. This course is approved for General Education – Distribution 1.

**ENGL322 SCREENWRITING****3 sem. hrs.**

This course covers dramatic theory, sample scripts, and sample films and videos. Students write short dramatic screenplays correctly formatted for the medium of their choice. Prerequisite: ENGL101, ENGL301.

**ENGL325 LITERATURE OF THE BIBLE I****3 sem. hrs.**

This course offers a literary study of various genres from the Old Testament: myth, poetry, history, short stories, wisdom literature, and prophecy. This course is approved for General Education – Distribution 1.

**ENGL326 LITERATURE OF THE BIBLE II 3 sem. hrs.**

This course offers a literary study of selected texts from the Apocrypha, the New Testament, and extra canonical Christian literature contemporary with the New Testament. The course is independent of ENGL325 and may be taken alone. This course is approved for General Education – Distribution 1.

**ENGL330 LITERATURE AND FILM 3 sem. hrs.**

This course examines the variety of relationships that exists between literary genres and film adaptations, focusing on fundamental similarities and differences among the genres, the adjustments necessary to transform literary works for the screen, and the major factors that determine the particular character of a film adaptation. This course is approved for General Education – Distribution 1.

**ENGL332, 333, 334 TOPICS IN CLASSICAL, MEDIEVAL AND RENAISSANCE LITERATURE 3 sem. hrs.**

This course will examine a framed consideration of literature written by Classical, Medieval and Renaissance authors. The framing device might be geographical, historical, thematic, cultural, or discipline specific. The course is open to English and secondary education-English majors who have taken ENGL209, or by permission of the instructor. Prerequisite: **ENGL209**

**ENGL 335, 336, 337 TOPICS IN BRITISH LITERATURE 3 sem. hrs.**

This course will examine a framed consideration of literature written British authors. The framing device might be geographical, historical, thematic, cultural, or discipline specific. The course is open to English and secondary education-English majors who have taken ENGL209, or by permission of the instructor. Prerequisite: **ENGL209**

**ENGL338, 339, 340 TOPICS IN AMERICAN LITERATURE 3 sem. hrs.**

This course will examine a framed consideration of literature written by American authors. The framing device might be geographical, historical, thematic, cultural, or discipline specific. The course is open to English and secondary education-English Majors or by permission of the instructor. Prerequisite: **ENGL209**

**ENGL341, 342, 343 TOPICS IN WORLD LITERATURE 3 sem. hrs.**

This course will examine a framed consideration of literature written by authors who are of neither British nor U.S. origin. The framing device might be geographical,

historical, thematic, cultural, or discipline specific. The course is open to English and secondary education-English majors who have taken ENGL209, or by permission of the instructor. Prerequisite: **ENGL209**

**ENGL355 POPULAR LITERATURE 3 sem. hrs.**

Each time it is offered, this course will explore a particular genre of popular literature, such as science fiction, fantasy, detective literature, the romance novel, or horror. The course will emphasize the form and history of the selected genre, and will exercise a variety of critical approaches. This course is approved for General Education-Distribution 1.

**ENGL365 GENDER AND IDENTITY IN LITERATURE 3 sem. hrs.**

This course examines the various ways literature reflects, constructs, reinforces, and challenges gender roles. The course explores “masculinity” and “femininity,” and in exploring several different feminist approaches to literature and culture suggests that gender identity is always socially constructed and historically specific. Ultimately, the course contends that understanding gender as socially constructed rather than biologically given is empowering for society as a whole. Prerequisite: ENGL101. This course is approved for General Education – Distribution 1.

**ENGL370 BUSINESS WRITING 3 sem. hrs.**

This course provides strategies for composing professional memos, letters, emails, text messages, analyses of figures and tables, fliers, brochures, web pages, and formal reports that integrate clear document design, effective audience analysis, and a style that is tactful, diplomatic, and graceful. Prerequisite: ENGL 102. Approved for General Education: Distribution 1.

**ENGL385 ADVANCED COMPOSITION 3 sem. hrs.**

This course focuses on advanced expository writing. It studies rhetorical techniques and their practical application; issues of audience, style, and organization; and the composing/ revising process. Prerequisite: **ENGL101**. This course is approved for General Education – Distribution 1.

**ENGL388 MYTHOLOGY 3 sem. hrs.**

This course introduces students to basic mythic patterns and their relationships to social patterns. Students study the need for myth making, the development of basic mythic patterns, and how specific myths have survived and evolved in modern literature. This course is approved for General Education – Distribution 1.

**ENGL389 WORLD MYTHOLOGIES 3 sem. hrs.**

This course surveys world mythologies, the major critical approaches to myth, and the role of myth in contemporary society. It emphasizes myth as an expression of cultural values and world views and promotes an understanding of mythic themes and symbols in art and literature. This course is approved for General Education – Distribution 1.

**ENGL397-398 STUDIES IN LANGUAGE AND LITERATURE 3 sem. hrs.**

Individual courses designed primarily for the non-English major to focus on popular topics of language or literature.

**ENGL402 FICTION WORKSHOP 3 sem. hrs.**

Building on a foundation laid in ENGL301, students in this course compose full-length short stories; analyze the work of contemporary and canonical practitioners of the form; and critique the work-in-progress of their colleagues. Prerequisite: **ENGL301**.

**ENGL403 POETRY WORKSHOP 3 sem. hrs.**

Building on a foundation laid in ENGL301, students enrolled in this course compile a portfolio of original poetry; analyze the work of contemporary and canonical practitioners of the form; reacquaint themselves with the power of oral recitation; undertake a practical study of poetic form and rhetoric; and critique the work-in-progress of their colleagues. Prerequisite: **ENGL301**.

**ENGL404 TECHNICAL WRITING 3 sem. hrs.**

A study of exposition adapted to the needs of students in sciences and engineering, using analytic written presentations, correspondence, technical reports, and scientific papers. This course is approved for General Education – Distribution 1. Prerequisite: **ENGL102**.

**ENGL410 ADVANCED TECHNICAL WRITING 3 sem. hrs.**

This course provides intensive instruction in designing, writing, and editing extended technical documents. Prerequisite: **ENGL404** or permission of instructor.

**ENGL411, 412 AUTHORS IN CLASSICAL, MEDIEVAL AND RENAISSANCE LITERATURE 3 sem. hrs.**

This course presents no more than three authors from the canon of Classical, Medieval and Renaissance literature. Content varies according to the interests and needs of the participants. The course is open to English and secondary education-English majors who have taken ENGL209, or by permission of the instructor. Prerequisite: **ENGL209**



**ENGL413, AUTHORS IN BRITISH  
414 LITERATURE 3 sem. hrs.**

This course presents no more than three authors from the canon of British literature. Content varies according to the interests and needs of the participants. The course is open to English and secondary education-English majors who have taken ENGL209, or by permission of the instructor. Prerequisite: **ENGL209**.

**ENGL415, AUTHORS IN AMERICAN  
416 LITERATURE 3 sem. hrs.**

This course covers three important Postmodern American novelists: John Barth, Kurt Vonnegut, and Ishmael Reed. Such issues as the development of American Postmodernism, as well as the relationship between postmodern literary theory, and the use of concepts in other academic schools are covered. The course concentrates on the sense of play and artistic freedom present in Postmodernism. Preq: ENGL 209. This course is open only to English and Secondary Education English majors or by permission of instructor.

**ENGL 417, LITERARY MOVEMENTS  
418 AND PERIODS 3 sem. hrs.**

A series of two courses designed from majors offering in-depth exploration of selected literary movements and periods. Topics will change with each offering so that a student may take up to six credit hours in the series. Prerequisites: **ENGL102 or ENGL104**.

**ENGL420 FEMINIST LITERARY  
CRITICISM 3 sem. hrs.**

This course in feminist literary criticism includes representative works and writers from all approaches to this field, and traces their relationship to cultural concepts and literary movements.

**ENGL440 ESSAY WORKSHOP  
3 sem. hrs.**

Personal essays – short nonfiction pieces based on the writer’s own experiences – are part of a rich literary tradition. In this course, students compose original essays that receive commentary from the instructor and their peers. To situate students’ writing within a literary context, the course includes a brief survey of the history of the personal essay, focusing on selected authors from the 16th century to the present. Prerequisite: **ENGL385**.

**ENGL 441 ADVANCED FICTION  
WRITING 3 sem. hrs.**

Building on a foundation laid earlier in the writing concentration, students in this course develop their ability to prepare full-length novella manuscripts or extensive portions of a fully realized novel. Students will also refine their critical thinking, speaking, and writing skills as they respond to one another’s writings, the lengthy fiction written by masters of the art, and current literary works. Prerequisite: **ENGL402**.

**ENGL442 ADVANCED POETRY  
WRITING 3 sem. hrs.**

Building on a foundation laid earlier in the writing concentration, students in this course develop their ability to match poetic form to subject matter; deepen their understanding of how poetic tradition influences poetic practice; and refine their critical thinking, speaking, and writing skills as they respond to one another’s poems, poems written by masters of the art, and poems published in current literary periodicals. Prerequisite: **ENGL403**.

**ENGL443 ADVANCED CREATIVE  
NONFICTION 3 sem. hrs.**

This course combines the information-gathering techniques of the nonfiction writer – observation, research, and recollection – with the stylistic and rhetorical techniques of the novelist or short-story writer – setting, conflict, character development, narrative voice, dialogue, and metaphor. This course will acquaint students with the work of contemporary creative nonfiction writers, and will require students to draft, revise and edit several extended-length nonfiction prose pieces, with the ultimate objective of publication. Prerequisite: **ENGL440**.

**ENGL444 ADVANCED  
SCREENWRITING  
3 sem. hrs.**

Building on a foundation laid earlier in the writing concentration, students in this course develop their ability to complete a feature-length screenplay using the accepted professional format and standards. Prerequisite: **ENGL322**.

**ENGL450 INTERNSHIPS IN  
COMMUNICATION ARTS  
1-12 sem. hrs.**

Students gain professional experience in business, government, or industry under the supervision of the department. Permission of the chairperson is required.

**ENGL489 LITERARY CRITICISM:  
THEORY 3 sem. hrs.**

This course is a study of the origins and development of the theory of literary criticism using major writings.

**ENGL490 INDEPENDENT STUDY  
3-6 sem. hrs.**

The independent study program aims to serve those students whose scholarly interest seems clearly adapted to independent work. Students may earn credit for work performed outside the classroom requirements of any specific course in the curriculum. Permission of the chairperson is required.

**ENGL498 THESIS SEMINAR IN  
WRITING 3 sem. hrs.**

In this course, majors in the B.A. in English-Writing program demonstrate professional expertise by planning a semester-long project in a particular writing genre; presenting a project proposal to the seminar; participating in oral and written critiques of work-in-progress; producing a ready-for-publication version of the project; and presenting the completed project in a public forum. Prerequisite: **Senior standing and 33 credit hours in the Writing Concentration before enrollment**.

**ENGL499 THESIS SEMINAR IN  
LITERATURE 3 sem. hrs.**

This course is designed to assist the student in understanding the role of literary research. The content of the course will rotate according to the expertise of the instructor. It will serve as a capstone course for English majors to demonstrate the variety of knowledge that they have collected and create a professional length study on the topic on the seminar. Prerequisite: **ENGL209, ENGL489**, and junior status.

**ENGL521 HISTORY OF THE  
ENGLISH LANGUAGE  
3 sem. hrs.**

A study of the development of the English language from Anglo-Saxon times to the present with emphasis on the historical continuity of these changes.

**ENGL525 COMPOSITION THEORY  
3 sem. hrs.**

This course introduces students to the theories and research informing the writing process and the teaching of that process. It also examines the relationship of grammar instruction to the writing process. Prerequisites: **ENGL101/103 and 102/104** or equivalent.

**ENGL545 ADOLESCENT  
LITERATURE:THE  
PROBLEM NOVEL  
3 sem. hrs.**

This course examines the historical development of adolescent literature, literature appropriate for use in grades 5-12.

**ENGR201 ENGINEERING GRAPHICS  
AND DESIGN 3 sem. hrs.**

This course teaches manual graphics and technical drawing techniques and principles, and introduces computer graphics. It considers topics in descriptive geometry, pictorial representations, drafting conventions, and computer aided design (CAD) and drafting.

**ENGR303 ENGINEERING STATICS  
3 sem. hrs.**

This first course in engineering vector mechanics deals with the statics of rigid bodies and introduces analysis of deformable solids. Topics include equilibrium of force systems, analysis of frames and structures, friction,

centroids, moments of inertia, and distributed forces in beams. Prerequisite: **PHYS320**.

**ENGR304 ENGINEERING DYNAMICS 3 sem. hrs.**

This course in engineering vector mechanics deals with the dynamics of particles and rigid bodies, using engineering examples throughout. Topics include the kinematics and kinetics of particles, systems of particles, and rigid bodies. Prerequisite: **ENGR303**.

**ENGR490 INDEPENDENT STUDY: ENGINEERING**

**1-6 sem. hrs.**

Students solve problems and earn credit for work performed independently outside the classroom requirement of any specific course in the curriculum. Prerequisite: permission of the instructor.

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**FIN300 PRINCIPLES OF FINANCE 3 sem. hrs.**

This course provides the theoretical concepts, institutional background, and technical skills necessary for effective enterprise financial management. Topics include the nature of enterprise finance, the analysis and use of financial information, financial markets and interest rates, international dimensions of finance and exchange rates, the time value of money, and security valuation. Prerequisites: **ACCT220, ECON225, ECON220, CSCI104** (or higher course), and **MATH105** (or higher mathematics course), enrollment in **BSBA concentration** or in **BS Economics** or in **BA Mathematics/Actuarial Science concentration**.

**FIN310 INTERNATIONAL FINANCE 3 sem. hrs.**

The course explores the characteristics of international financial markets and the associated risks and benefits. It studies the balance of payments adjustment mechanism, the international monetary system, foreign exchange markets, and international aspects of corporate financial management in a global economic environment. The role of international reserves, adjustment under fixed and flexible exchange rates, and use of exchange controls are also examined. Prerequisites: **Enrollment in a BSBA concentration**, and **ACCT220, ECON225** and **FIN300**.

**FIN320 BUSINESS FINANCE 3 sem. hrs.**

This course focuses on long-term financing strategies of the corporation. The theory of valuation for corporate securities, capital structure theory and policy, dividend theory and policy, and the overall cost of capital to the business firm are examined. Prerequisite: **Enrollment in a BSBA concentration**, and **FIN300**.

**FIN360 PERSONAL FINANCIAL PLANNING 3 sem. hrs.**

This course introduces the personal financial planning process and the professional services environment that promotes and implements personal financial plans and products. Topics include personal financial data gathering, establishing personal goals and objectives, risk management and insurance products, investment strategies, income tax planning, retirement planning, and estate and gift planning. Prerequisites: **Enrollment in a BSBA concentration**, and **BUAD260** and **FIN300**

**FIN400 FINANCIAL INVESTMENT ANALYSIS 3 sem. hrs.**

This course introduces the investment environment and process. The investment environment describes investment securities and their purchase and sale. The investment process describes the decision-making procedure of acquiring and disposing of securities in competitive financial markets. It examines the relationship of risk and expected reward in light of rigid investment goals. Prerequisites: **Enrollment in a BSBA concentration**, and **FIN300** and **QUAN340**.

**FIN420 RETIREMENT, ESTATE, AND RISK MANAGEMENT PLANNING 3 sem. hrs.**

This course takes an in-depth look at strategies for retirement planning, asset transfer planning, and managing risk. Topics include pension plans, social security, investments for retirement needs, estate tax, gift tax, probate, trusts, gifts, life insurance, property insurance, health insurance, disability insurance, non-insurance risk management strategies, and professional standards. Prerequisites: **Enrollment in a BSBA concentration**, and **ACCT220, ECON225, FIN300** and **FIN360**.

**FIN430 RETIREMENT PLANNING AND EMPLOYEE BENEFITS 3 sem. hrs.**

This course takes an in-depth look at strategies for retirement planning. Topics include qualified and non-qualified retirement plans, determining retirement income needs, taking distributions from retirement plans, Social Security, and Medicare. Employee benefits will also be analyzed. Prerequisites: **Enrollment in a BSBA concentration**, and **FIN300** and either **ACCT330** or **FIN360**.

**FIN440 ESTATE PLANNING 3 sem. hrs.**

This course focuses on the efficient conservation and transfer of wealth. The course takes an in-depth look at the legal, tax, financial, and non-financial aspects of the estate planning process and covers topics such as trusts, wills, probate, advanced directives, and charitable giving. Prerequisites: **Enrollment in a BSBA concentration**, and **FIN300** and either **ACCT330** or **FIN360**.

**FIN475 FINANCIAL PLAN DEVELOPMENT 3 sem. hrs.**

This course will engage the student in critical thinking and decision-making about personal financial management topics in the context of the financial planning process. The purpose of this course is to refine and develop skills needed for personal financial planners when working with individuals, families, and business owners. Students are required to develop and submit a comprehensive written financial plan for an actual or hypothetical client. Prerequisites: **Enrollment in a BSBA concentration**, and **ACCT330, FIN360, FIN400, FIN430, and FIN440**.

**FIN495 INTERNSHIP IN FINANCIAL SERVICES 3-15 sem. hrs.**

The financial services internship provides students with an on-the-job learning experience in a commercial firm, government agency, or institution. Interns have an opportunity to apply classroom learning in a practical work environment. Financial services interns must have earned 60 credits, with at least 15 of those credits taken at Edinboro University, and including a minimum of 9 credits in the financial services requirements section (section III) of the business administration – financial services curriculum requirements. A minimum of 2.6 grade point average in his/her major and a 2.4 grade point average overall is required. Application approval will be in accordance with University policy. Prerequisite: **Enrollment in a BSBA concentration**.

**FREN100 INTRODUCTION TO FRANCE AND THE FRENCH 3 sem. hrs.**

This course presents the high points of historic-social progression from earliest days to the present. This course provides the student with an appreciation of the French contribution to the modern world through the discussion of French geography, history, government and culture. Lecture is interspersed with film based on documentary topics or on works of French literature. This course is approved for General Education – Core 5

**FREN101 FIRST COURSE IN FRENCH 3 sem. hrs.**

This course introduces the structures of the French language in a cultural context. The student will not only develop the basic skills for communication in the language but also a fundamental awareness of the cultural diversity of the French-speaking world. This course is approved for General Education – Core 5.

**FREN102 SECOND COURSE IN FRENCH 3 sem. hrs.**

This course reviews the basic language structures presented in FREN101 and continues the survey of the complete set of French grammatical and syntactical structures. Prerequisite: **FREN101** or equivalent. This course is approved for General Education – Distribution 1.

**FREN201 THIRD COURSE IN FRENCH 3 sem. hrs.**

This course offers an in-depth review of the four basic skills (listening, speaking, reading, and writing) with the emphasis on grammar and syntax as tools to understanding and communicating written and oral French. Prerequisite: **FREN102** or equivalent. This course is approved for General Education – Distribution 1.

**FREN202 FOURTH COURSE IN FRENCH 3 sem. hrs.**

This course is a continuation of FREN201, although the two courses do not have to be taken in sequence. This is an in-depth review of the four basic skills (listening, speaking, reading, and writing) with an emphasis on grammar and syntax as tools to understanding and communicating written and oral French. Prerequisite: **FREN102** or equivalent. This course is approved for General Education – Distribution 1.

**FREN332 FRENCH CIVILIZATION 3 sem. hrs.**

This course provides the student with an appreciation of the French contribution to the modern world through the study in the French language of French geography, history, government, literature, the arts and sciences. Prerequisite: Permission of staff.

**FREN353 THE FRENCH NOVEL IN ENGLISH 3 sem. hrs.**

This course presents a selection of French novels in translation representing various movements and literary periods in French literature, from the 17th to the 20th centuries.

**FREN390-393 SPECIAL TOPICS: FRENCH 1-12 sem. hrs.**

This series consists of a variety of short courses in specialized areas beyond the content of regular courses. Students may take as many or as few of such courses as they wish. Credit will be granted at the equivalence of 15-class hours a semester, plus requisite examination procedures. A list of courses offered, subject to changes, is maintained by the head of the Department.

**FREN490-493 INDEPENDENT STUDY IN FRENCH 3-6 sem. hrs.**

For students who need extra credit for the major or minor field and/or state certification. Open to students having a 3.0 average or better in French and with the consent of the department chairperson and the instructor concerned. Written and oral reports. May be repeated for 3 additional credits with maximum of 6.

**- G -****GEOG101 WORLD GEOGRAPHY 3 sem. hrs.**

This course offers the requisite knowledge base and skills for the scientific understanding of the physical and cultural attributes of places, human environment relations and the spatial pattern of distribution of geographic phenomena. The course focuses on the strategic themes of geographic education in the 21st century: environmental change, sustainability, the spatial pattern of economy and society and the role of technology in human – environment relationships. This is a foundation course and is approved for General Education – Core 2.

**GEOG130 CULTURAL GEOGRAPHY 3 sem. hrs.**

This course studies the distribution and development of human societies with particular reference to both culture and habitat. Life patterns, values, and customs that have left their imprint on the world are examined and interpreted. This foundation course is approved for General Education – Core 2.

**GEOG145 ENVIRONMENTAL ISSUES 3 sem. hrs.**

This course introduces the complex environmental issues that impact American society. Political, economic, ethical, and moral decisions about land use and resource management are viewed in historical and modern context. The American value system and the perception of nature are discussed using case studies in environmental law, on controlling nature, and in land use conflicts. This course is approved for General Education – Core 6.

**GEOG230 SOCIETAL ISSUES 3 sem. hrs.**

This course is designed to analyze the work of geographers in socially relevant, contemporary issues and problems. Active student participation in research, field trips, discussion, and selection of other topics will be maximized. This course is approved for General Education – Core 5.

**GEOG245 CONSERVATION OF NATURAL RESOURCES 3 sem. hrs.**

Considered in this course are the nature, distribution, and consumption of the nation's resources. The relationship of man and his support system is stressed. Topics considered include: energy, land use, water, wildlife management, forestry, and conservation ethics. This course is approved for General Education – Core 3.

**GEOG260 GEOGRAPHY OF THE UNITED STATES AND CANADA 3 sem. hrs.**

The course relates the principles of geography to the forces that have shaped American civilization. Settlement patterns, agriculture, manufacturing, commerce, and transportation are discussed along with the physical, political, economic, and cultural factors that characterize the American landscape. This course is approved for General Education – Core 3.

**GEOG 300 PRINCIPLES OF URBAN AND REGIONAL PLANNING 3 sem. hrs.**

This course introduces the fundamental principles, concepts, theories and practices of urban and regional planning within the framework of both private and public sector engagement. It examines the historical evolution, methodologies, practices and problems of urban and regional planning in both developed and developing areas. Prerequisite: **GEOG101** or **GEOG130** or permission of instructor.

**GEOG305 BASIC CARTOGRAPHY 3 sem. hrs.**

This introduction to the techniques of mapmaking and map usage includes transformations and symbolic representation of physical and statistical data. It emphasizes the practical application of cartographic principles and the critical evaluation of published maps, charts and other graphical products. This course is approved for General Education – Distribution 2.

**GEOG320 PHYSICAL GEOGRAPHY 3 sem. hrs.**

This course includes an analysis of selected physical elements of the earth and the forces which shape the environment. The nature and distribution of weather, climate, soils, vegetation, landforms, ground water, surface water, and other physical aspects are studied in detail. Prerequisite: **GEOG101** or **GEOG130**. This course is approved for General Education – Distribution 2.

**GEOG332 POLITICAL GEOGRAPHY**  
**3 sem. hrs.**

This course will develop the student's awareness of the geographic aspects on international relationships through an analysis of the world's political states. The course will include case studies emphasizing such factors as the strategic resource concept, boundary location and control of international waterways. Prerequisite: **GEOG101** or **GEOG130**. This course is approved for General Education – Distribution 2.

**GEOG333 GEOGRAPHY OF WORLD AFFAIRS**  
**3 sem. hrs.**

This course provides an understanding of the role of geographic inter-relationships in world conflicts. Current world events will be used to explain important geographic concepts. Political, economic and logistical inter-relationships among world entities are explored emphasizing the role of geo-politics. Emphasis is given to events related to the American economy, international relations, and the global environment.

**GEOG335 URBAN GEOGRAPHY**  
**3 sem. hrs.**

This course introduces the spatial patterns of cities in both western and non-western cultures. It uses an historical and a contemporary perspective system to examine cities and their interactions as well as the internal form of cities based on different land uses. This course emphasizes social and environmental problems related to urban development. Prerequisite: **GEOG101** or **GEOG130**. This course is approved for General Education – Distribution 2.

**GEOG340 ECONOMIC GEOGRAPHY**  
**3 sem. hrs.**

This course investigates attempts to organize space efficiently. Economic behavior results in a wide variety of observable patterns directly related to production, trade, and marketing activities. An examination of such locational factors and principles will enable a better understanding of economic behavior and economic systems. This course is approved for General Education – Distribution 2.

**GEOG350 POPULATION GEOGRAPHY**  
**3 sem. hrs.**

This course consists of a systematic study of the world's population. The numbers, characteristics, growth and distributional patterns of population are emphasized. Prerequisite: **GEOG101** or **GEOG245**. This course is approved for General Education – Distribution 2.

**GEOG365 GEOGRAPHY OF LATIN AMERICA**  
**3 sem. hrs.**

This comprehensive introduction emphasizes physical, political, economic, social, and cultural characteristics of selected Latin American countries. This course is approved for General Education – Distribution 2.

**GEOG370 GEOGRAPHY OF EUROPE**  
**3 sem. hrs.**

This course includes the systematic study of the physical features, climatic regions, distribution of soils, vegetation, agriculture, and minerals. It also includes regional treatment of selected areas and the growth of economic unity. This course is approved for General Education – Distribution 2.

**GEOG375 GEOGRAPHY OF THE MIDDLE EAST**  
**3 sem. hrs.**

This course includes the geography of the Middle East as defined in the context of a cultural, social, and economic milieu defined primarily from an Islamic-Arabic central focus. A physical world reality will be interfaced accordingly. This course is approved for General Education – Distribution 2.

**GEOG380 GEOGRAPHY OF AFRICA**  
**3 sem. hrs.**

This course includes a systematic study of the physical features of this continent as well as the population, cultural, economic and political geography. It stresses problems facing the countries of a developing continent and emphasizes regional treatment of selected areas and the growth of political-economic unity. This course is approved for General Education – Distribution 2.

**GEOG390 GEOGRAPHY OF ASIA**  
**3 sem. hrs.**

This course provides an intensive study of the environmental and cultural assets and liabilities of the countries of the Far East, South and Southeast Asia. It introduces social, political, cultural, and economic relationships with other areas of the world with contributions to a more complete interpretation of the particular area of topic under study. It stresses population, resources, and strategic problems. This course is approved for General Education – Distribution 2.

**GEOG391 FIELD GEOGRAPHY**  
**3 sem. hrs.****(MAY BE TAKEN UP TO THREE TIMES WITH DIFFERENT VENUES)**

This course is focused around a short-term field excursion to points of interest. An extensive field experience is used to study the regional geography of the area, including the physical, climatic, cultural, political, urban, economic, environmental and population geography. The course emphasizes how various phenomena combine to form the distinctive geography of the field location. Prerequisite: **GEOG 101** or **GEOG 130**, or permission of instructor.

**GEOG395 GEOGRAPHY INTERNSHIP**  
**3-15 sem. hrs.**

The Geography internship provides practical experience with an approved agency or facility involved in activities pertaining to geographic fields of study.

**GEOG405 ADVANCED CARTOGRAPHY**  
**3 sem. hrs.**

This advanced course builds on the practical techniques introduced in GEOG305. Topics covered in the course include terrain mapping, creating customized map symbols, importing geographic data into graphics programs, advanced editing and image manipulation techniques, and the production of map books. Prerequisite: GEOG305, or permission of instructor.

**GEOG411 SPATIAL ANALYSIS**  
**3 sem. hrs.**

This course introduces the use of basic quantitative methods in geography. Probability theory, spatial statistics, and the application of theoretical curves to geographic distributions are part of this course. Estimation procedures, testing of hypotheses and regression analysis are discussed and applied to cases in the field of geography. Spatial sampling, methods of a real association and other techniques of a particularly geographic nature are covered.

**GEOG413 GEOGRAPHIC INFORMATION SYSTEMS**  
**3 sem. hrs.**

This course introduces the theory and practice of Geographic Information Systems (GIS). It covers the elements and capabilities of GIS. The course emphasizes spatial data structure, acquisition, creation, management, manipulation, and analysis in a GIS for the solution of geographic problems. Prerequisite: **GEOG 305** or consent of instructor. This advanced course is approved for General Education – Computer Competency.

**GEOG414 REMOTE SENSING**  
**3 sem. hrs.**

This course introduces the theory, principles, and practice of remote sensing. It covers the interpretation and analysis of airborne and satellite remotely sensed data in order to solve geographic, geologic, and environmental problems. Prerequisite: **GEOG305**, or permission of instructor.

**GEOG415 SEMINAR IN GEOGRAPHY**  
**1-9 sem. hrs.**

This advanced seminar focuses on topics in physical geography, human geography, environmental studies, or geographic methods. Topics vary based on the interest of instructor and students. The course covers methods of research and presentation in the topical area and students

will complete research projects. Recommended for junior or senior geography majors. Prerequisite: Permission of instructor required.

**GEOG420 GIS APPLICATIONS IN BUSINESS AND PLANNING**  
3 sem. hrs.

Applications of geographic information science (GIS) to problems faced in business and regional and city planning. Projects in the course focus on real world problems such as site selection for business, location-allocation for public services, routing for buses or delivery trucks, market area estimation, and demographic analysis. Prerequisite: **GEOG340**, junior standing in business, or permission of instructor.

**GEOG425 GEOGRAPHY OF WATER RESOURCES** 3 sem. hrs.

Water is an essential component of most ecosystems and is a vital resource for human life. This course will examine water resources from a geographic perspective, including the distribution of water resources from local to global scales, water quality issues, and water policy/management in the U.S. and internationally. Prerequisite: **GEOG 245** or **GEOG 320** or permission of instructor.

**GEOG490 INDEPENDENT STUDY**  
2-5 sem. hrs.

The independent study program permits individualization of a student's program of studies. Projects are prepared under the direction of a member of the Geosciences Department with the approval of the department chairperson.

**GEOG513 GEOGRAPHIC INFORMATION SYSTEMS II: GIS MODELING** 3 sem. hrs.

This course is about the creation and implementation of computer models of geographic reality with the use of a geographic information system. These models are used in the solution of geographic problems. An understanding of the modeling process and the analysis of appropriate spatial data in multi-criteria decision-making will be covered. Prerequisite: **GEOG413** or consent of instructor.

**GEOG515 BIOGEOGRAPHY**  
3 sem. hrs.

This course addresses the spatial and temporal patterns of plant and animal distributions as well as the underlying *processes* that influence these patterns. The course content includes both historical and ecological perspectives on biogeographic distributions. It also addresses human impacts on biotic distributions and technological advances that have influenced biogeography. Prerequisite: **GEOG245** or **BIOL316** or consent of the instructor.

**GEOG525 FOREST GEOGRAPHY AND CONSERVATION**  
3 sem. hrs.

Forest geography concerns the distribution of forest ecosystems on Earth, and how forests change over time. The course will emphasize the underlying processes that control patterns of growth and change at multiple scales. Both human-related and natural disturbances to forests will be considered. The course will cover major forest conservation issues, especially with respect to forests of the United States. Prerequisites: **GEOG515** or permission of instructor.

**GEOG545 ENVIRONMENTAL PLANNING** 3 sem. hrs.

This course investigates the underlying spatial character of regional planning. Stress is placed on land use, population patterns, resource capabilities, and transportation infrastructure. Students will be expected to undertake a major research paper. Prerequisite: **GEOG245**.

**GEOS101 DYNAMIC EARTH**  
3 sem. hrs.

This course is a scientific study of Earth's geologic systems. The course includes the origin and identification of minerals and rocks, geologic time concepts and applications, examination of Earth systems, cycles and processes, and causes and consequences of geologic phenomena, especially those related to environmental change, hazards, and resources. 2 hours lecture, 2 hours lab. This foundation course is approved for General Education – Core 7

**GEOS102 EXPLORING WEATHER AND CLIMATE** 3 sem. hrs.

An introductory course designed to explore the fundamental concepts of weather and climate. The basic principles that govern the weather are discussed. An emphasis is placed upon understanding weather phenomena such as thunderstorms, hurricanes, tornadoes and lake-effect snows. Past changes in climate are investigated as are projected future trends. This course is not open to students who are enrolled in or have successfully completed **GEOS109** or **GEOS320**. This course is approved for General Education - Core 7.

**GEOS104 INTRODUCTION TO EARTH ENVIRONMENTS**  
3 sem. hrs.

An introductory course designed to explore the fundamental concepts of geology while examining human interactions with the physical environment. The course will focus on the nature and geologic origin of energy and mineral resources. Environmental problems associated with resource development will be discussed from a scientific perspective. Geologic hazards such as earthquakes and

volcanic eruptions are included. Not open to students who have completed **GEOS 101**. This course is approved for General Education - Core 7. **GEOS109**

**GEOS109 ATMOSPHERE AND SPACE SCIENCE** 3 sem. hrs.

The course couples study of the atmosphere and the processes which produce observed weather and climate with an examination of the earth in relation to the solar system and the universe. Planetarium facilities are used extensively as part of the lab to demonstrate the basic concepts presented. No prerequisites. Students may not take this course concurrent with or subsequent to **GEOS 320** or college level astronomy. 2 hours lecture, 2 hours lab. This foundation course is approved for General Education – Core 7.

**GEOS112 PRINCIPLES OF EARTH HISTORY** 3 sem. hrs.

This course introduces the origin and development of the Earth, its atmosphere, oceans, and life forms through time. It emphasizes the concepts and methods employed to interpret the geologic record. With laboratory. Prerequisite: **GEOS101** or consent of the instructor. 2 hours lecture, 2 hours lab.

**GEOS301 GEOLOGY OF OUR NATION'S PARKS**  
3 sem. hrs.

The course examines the geologic features which form the basis for many of the nation's park. The parks selected for study provide an understanding of the geologic history of various parts of the United States. (This course may not be used to complete requirements for the BS in geology degree.) Prerequisites: **GEOS101** or **GEOS104** or **GEOS310**. This course is approved for General Education – Distribution 3.

**GEOS302 OUR HAZARDOUS PLANET** 3 sem. hrs.

This course examines the interaction between humans and extreme geologic phenomena of the Earth system that are considered hazardous. It focuses on the causative geologic processes, factors and effects that make them hazardous, modern and historical occurrences, risk assessment, mitigation, and applications of concepts and techniques to understand these phenomena. No prerequisites; 3 hours lecture. This course is approved for General Education – Distribution 3.

**GEOS303 CLIMATE SCIENCE**  
3 sem. hrs.

This course introduces the essential principles of climate science and the interactions of atmosphere, land, and ocean that regulate the climate system. Topics covered include the composition of the atmosphere, the

Earth's radiation budget, circulations of the atmosphere and oceans, processes that control precipitation formation, and climate change. This course is not open to students who are enrolled in or have successfully completed GEOG222. Prerequisites: MATH104 or higher, and any Core 7 course. This course is approved for General Education - Distribution 3.

**GEO310 INTRODUCTION TO OCEANOGRAPHY** 3 sem. hrs.

The course introduces the physical, chemical, biological, and geological processes of the world's oceans. Topics include the history of oceanography, properties of sea water, coastal processes, waves and ocean circulation and marine ecology. No prerequisites. This course is approved for General Education – Distribution 3.

**GEO311 MINERALOGY** 4 sem. hrs.

A study of the common minerals of the earth's crust. Emphases are placed on the genesis and techniques of identification of the important rock-forming and ore-bearing minerals. Elementary crystallography is introduced. Laboratory work is included. Prerequisite: **GEO101** or consent of the instructor. 3 hours lecture, 3 hours lab.

**GEO320 METEOROLOGY I** 3 sem. hrs.

An introduction to the composition and structure of the atmosphere, the forces which cause air motion, the nature of observed weather systems, and the processes which cause condensation and precipitation. Pollution of the atmosphere and its possible effect on global climate and air circulation are briefly examined. Recommended for, but not restricted to, science majors. (No prerequisites, with lab.) 2 hours lecture, 2 hours lab.

**GEO321 METEOROLOGY II** 3 sem. hrs.

This course employs basic physical concepts and elementary mathematics to investigate atmospheric processes on a variety of spatial scales. An emphasis is placed upon the instruction and utilization of practical techniques in weather analysis and forecasting. Lab included. Prerequisite: **GEO320** or equivalent. 2 hours lecture, 2 hours lab.

**GEO375 ENVIRONMENTAL GEOLOGY** 3 sem. hrs.

This course discusses the complex relationships between the geologic environment and human development. Topics include soil classification, slope stability, groundwater supply, movement, contamination and remediation. This is an applied geology course designed for Geosciences Department and other science (including Secondary Education) majors. Prerequisite: **GEO101** or permission of instructor.

**GEO395 INTERNSHIP IN EARTH SCIENCES** 6-15 sem. hrs.

Provides practical experience for the student with an approved agency or facility involved in activities pertaining to the earth sciences.

**GEO490 INDEPENDENT STUDY** 2-5 sem. hrs.

The independent study program permits individualization of a student's program of studies. Projects are prepared under the direction of a member of the Geosciences Department with the approval of the department chairperson.

**GEO505 SOIL GEOMORPHOLOGY** 3 sem. hrs.

Soil geomorphology is the study of soils and their role in the development of Earth's landscapes and underlying deposits. This course will introduce methods of soil description and classification, and discuss processes and products of weathering, processes of soil formation, factors influencing soil formation, and the application of soils in geology and environmental studies. 2 hours lecture, 2 hours lab. Prerequisites: **GEO112** or consent of instructor

**GEO507 QUATERNARY GEOLOGY** 3 sem. hrs.

This course is focused on the diverse geology of the Quaternary Period. Students will: 1) develop skills in describing, identifying, and mapping Quaternary deposits, and 2) interpret changes in the distribution and timing of Quaternary deposits within the context of the driving mechanisms behind those changes. Our understanding of past changes in Quaternary systems will then be used to examine the possible future rates and magnitude of geologic change, and potential impacts on human populations. Prerequisite: **GEO112** or consent of instructor. 2 hours lecture, 2 hours lab.

**GEO510 INTRODUCTION TO GEOPHYSICS** 3 sem. hrs.

This course introduces three topic areas in geophysics: seismology, geoelectricity and gravity. In addition, it covers some elementary concepts related to digital operations on seismic signals. Laboratory experiments illustrate the fundamentals of making and analyzing geophysical measurements. Prerequisites: **MATH212** and **PHYS202**.

**GEO513 IGNEOUS AND METAMORPHIC PETROLOGY** 4 sem. hrs.

A study of igneous and metamorphic rocks, focusing on rock formation processes, tectonic settings, classification systems, and methods of

identifying and interpreting these rock classes. Macroscopic, microscopic, and chemical techniques are emphasized by using hand-sample petrography, thin sections, and other analytical methods. Prerequisite: **GEO311** or consent of instructor. 3 hours lecture, 3 hours lab.

**GEO515 MINERAL RESOURCES** 3 sem. hrs.

An introduction to geologic principles and processes of origin and the location, development, and processing of metallic and non-metallic mineral deposits. Prerequisite: consent of instructor or **GEO101**.

**GEO521 STRATIGRAPHY AND SEDIMENTATION** 4 sem. hrs.

A study of the origin, transport, and deposition of sediments and sedimentary rocks, their analysis by physical, chemical, and statistical methods, and their interpretation as indicators of past events and ancient environments in the history of the Earth. Lecture and lab. Prerequisite: **GEO112** or consent of instructor. 3 hours lecture, 3 hours lab.

**GEO522 REGIONAL GEOLOGY** 3 sem. hrs.

This course examines current interpretations for the origins of rocks and major structural deformations of North America, particularly in the Appalachian region. The class examines these geologic features in the order in which they originated and, thus, reconstructs the evolution of this continent from the inside out. Students with earned credit in **GEO222** may not take this course. Prerequisite: **GEO112** or consent of the instructor.

**GEO523 INVERTEBRATE PALEONTOLOGY** 4 sem. hrs.

A study of the distribution and evolutionary trends of fossil organisms through geologic time. Aspects of the course will include morphology, classification, ecologic affinities, and the application of fossils in correlation and as indicators of ancient environments. Laboratory will consider collection and preparation techniques; identification and the solution of problems in interpretation of earth's history from organic evidences. Prerequisites: **GEO112** or consent of instructor. 3 hours lecture, 3 hours lab.

**GEO525 FIELD STUDIES IN GEOSCIENCES** 3 sem. hrs.

This course introduces principles and procedures of data acquisition in the field. Emphasized are topographic and geologic mapping. A research paper, based on field data is required. Prerequisite: **GEO112** or permission of instructor.

**GEOS527 FIELD GEOLOGY**  
**3-9 sem. hrs.**

This course is focused around a 10-14 day field excursion to points of interest throughout continental North America. An extensive field experience is used to demonstrate fundamental concepts within the science of geology, including the relationships between geologic processes, materials, and landforms, for specific Earth systems. In addition, the course will demonstrate how system relationships are used to interpret Earth history, to explain the occurrence of economically important materials, and to classify and mitigate natural hazards. Prerequisite: **GEOS112** or consent of instructor.

**GEOS531 STRUCTURAL GEOLOGY**  
**4 sem. hrs.**

A study of the physical processes involved in the deformation of the earth's crust. Recognition of types of structures and an understanding of their development is emphasized. Laboratory work in solving structural problems is a part of the course. Prerequisite: **GEOS112** or consent of instructor. 3 hours lecture, 3 hours lab.

**GEOS541 GEOMORPHOLOGY**  
**3 sem. hrs.**

A study of the evolution of landscapes, including the processes which affect this evolution and the landforms developed by these processes. The laboratory deals with the study and interpretation of these factors from maps and aerial photography. Prerequisite: **GEOS101**, or consent of the instructor. 2 hours lecture, 2 hours lab.

**GEOS545 INTRODUCTION TO HYDROGEOLOGY**  
**3 sem. hrs.**

This course, which concerns water within its geological framework, covers the hydrologic cycle, the occurrence and movement of ground water, surface runoff and stream flow, water quality, and the legal implications of water use and misuse. Ground water and water quality are emphasized. Prerequisite: **GEOS101**. 2 hours lecture, 2 hours lab.

**GEOS547 INTRODUCTION TO GLACIAL GEOLOGY**  
**3 sem. hrs.**

A study of geologic processes in cold climates, with an emphasis on glaciers. This course includes glacial erosion and deposition, the indirect effects of glaciation, nonglacial processes in cold climates, and the effect of climate changes on plants and animals. The laboratory work deals with the interpretation of glaciers and cold climate landforms by maps and aerial photography. Prerequisite: **GEOS112** or equivalent. 2 hours lecture, 1 hour lab.

**GEOS581 GEOLOGY FIELD CAMP**  
**3-9 sem. hrs.****GEOS593, SEMINAR IN EARTH SCIENCES** each **1 sem. hr.**

A seminar course dealing with both current and classical problems in various phases of geology. Prerequisite: consent of the Department. (Students with at least sophomore class standing may elect seminar up to three times for a total of 3 credits.)

**GERM100 INTRODUCTION TO GERMANY AND THE GERMANS** **3 sem. hrs.**

This introductory course provides an overview of the culture, history, and language of the Germans. Taught entirely in English, GERM100 focuses upon the most important and interesting aspects of Germany and the German people. Appropriate films, readings, guest speakers, and discussions supplement the lectures. This course is approved for General Education – Core 5.

**GERM101 FIRST COURSE IN GERMAN** **3 sem. hrs.**

This course introduces fundamentals of the German language within the context of its culture. The student will develop not only the basic skills necessary for communication in the language, but also a fundamental awareness of the cultural diversity of the German-speaking world. This course is approved for General Education – Core 5.

**GERM102 SECOND COURSE IN GERMAN** **3 sem. hrs.**

This course continues the fundamentals of the German language including pronunciation, principles of grammar, audio-lingual emphasis, reading, and writing of simple German. GERM102 is a continuation of GERM101. This course is approved for General Education – Distribution 1.

**GERM103 READING GERMAN I** **3 sem. hrs.**

This course stresses the reading of professional literature in the student's discipline including principles of grammar, communication skills and translation. It is an elementary-level course designed for students majoring in the humanities, or in the natural, social and behavioral sciences.

**GERM201 THIRD COURSE IN GERMAN** **3 sem. hrs.**

The first course in second year college German stresses simple conversation, writing and comprehension of German. In addition, translations of articles in the individual students' major field(s) are covered, with the accentuation on translation from German into English. The major purpose of the course will

be to put into practice the German grammar and vocabulary learned during the first year of German study. Prerequisite: **GERM102** or equivalent. This course is approved for General Education – Distribution 1.

**GERM202 FOURTH COURSE IN GERMAN** **3 sem. hrs.**

This course focuses on a further development of the four basic skills with emphasis on the acquisition of reading ability, and includes readings from works of modern and contemporary German writers, with practice in speaking and writing German. Prerequisite: **GERM201** or equivalent. This course is approved for General Education – Distribution 1.

**GERM307 GERMAN CONVERSATION AND COMPOSITION** **3 sem. hrs.**

This course offers students practice in spoken and written German. Review of pronunciation and grammar. Written themes, preparation, and delivery of dialogues and talks on topical subjects. Prerequisite: **GERM202** or equivalent.

**GERM310 GERMAN ADVANCED TRANSLATION** **3 sem. hrs.**

This course offers students practice in translation of professional literature into English from German scientific, technical, and humanistic areas. The more difficult and sophisticated aspects of German to English translations will be stressed. Prerequisite: **GERM101 and GERM102** or permission of the instructor.

**GERM331 HISTORY OF GERMAN CULTURE** **3 sem. hrs.**

Introduction to significant aspects of German life and culture through the ages, including history, geography, economic aspects, and the contemporary image of a long tradition. Conducted in German. Prerequisite: **GERM202** or equivalent.

**GERM351 SURVEY OF GERMAN LITERATURE I** **3 sem. hrs.**

A historic survey of German literature, its various trends and periods from 1797 to the present. Reading and interpretation of representative works. Introduction to various genres, to the theory of literature, and to methods of interpretation. Conducted in German. Prerequisite: **GERM202** or equivalent.

**GERM352 SURVEY OF GERMAN LITERATURE II** **3 sem. hrs.**

Conducted entirely in German, this course is a historic survey of German literature from its inception around 750 until 1797. Students will read and discuss representative works from authors of this time period. Prerequisite: **GERM202**.

**GERM354 MODERN GERMAN LITERATURE 3 sem. hrs.**

German literature from 1885 to the present. The various trends like naturalism, impressionism, symbolism, expressionism, surrealism, new matter-of-factness. Representatives include: Hauptmann, Th. Mann, Neitzche, Kafka, Hesse, Musil, Brecht. Prerequisite: **GERM307**.

**GERM355 GERMAN LITERATURE IN TRANSLATION POST WORLD WAR II 3 sem. hrs.**

Introduction to major works of the Post World War II period in their contemporary and historical context. Readings, lectures, and discussions will be in English.

**GERM390- SPECIAL TOPICS: 393 GERMAN 1-12 sem. hrs.**

This series consists of a variety of short courses in specialized areas beyond the content of regular courses. Students may take as many or as few of such courses as they wish. Credit will be granted at the equivalence of 15-class hours a semester hour, plus requisite examination procedures. A list of courses offered, subject to change, is maintained by the chairperson of the Department.

**GERM407 ADVANCED GERMAN CONVERSATION AND COMPOSITION INTRODUCTION TO STYLISTICS 3 sem. hrs.**

Review of the finer points of German grammar, syntax, idiomatic construction, word formation. Original compositions. Strongly recommended for future teachers. Prerequisite: **GERM351** or consent of the instructor.

**GERM412 GERMAN APPLIED LINGUISTICS 3 sem. hrs.**

Structural analysis of the German language based on a contrastive study of English and German. Phonetics, phonemics, morphology, and syntax. Introduction to etymology and lexicology. Prerequisite: 6 sem. hrs. at 300-level or above.

**GERM465 HISTORY OF THE GERMAN 'NOVELLE' 3 sem. hrs.**

History and theories of the German Novella. Reading and interpretation of representative examples including novella by Goethe, Eichendorff, Hoffman, Kleist, Stifter, Keller, Kerder, Storm, Thomas Mann, Kafka, and Musil. Prerequisite: **GERM307**.

**GERM490 INDEPENDENT STUDY IN -492 GERMAN 3-6 sem. hrs.**

Sem. 1 or 2. Written and oral reports. For student who need extra credit for the major or minor field and/or state certification. May be repeated for 3 additional credits. Prerequisite: 3.0 average or better in German and consent of the Department Chairperson and instructor concerned.

**- H -****HBIN496 THE HARRISBURG INTERNSHIP SEMESTER 15 sem. hrs.**

The Harrisburg Internship Semester (THIS) is a 16-week internship in Harrisburg sponsored by the State System of Higher Education. One exceptional student from each SSHE University will be selected each semester to work with legislators and senior executives in state government on projects appropriate to the student's areas of interest. The internship will provide 15 semester hours of academic credit, consisting of a nine hour internship, a three-hour seminar, and a three-hour independent project.

**HIST100 STUDY OF HISTORY 3 sem. hrs.**

This course is an introduction to fundamental elements essential to the discipline of history. Using the basic techniques of historical criticism and methods it will focus on the reality that history is a dynamic intellectual exercise rather than a collection of static truths and timeless absolutes. It focuses on the foundations of historical writing and research. Prerequisite: Students should have already taken **ENGL101** or must be currently enrolled. History majors are required to enroll in HIST100 upon entry into the Bachelor of Arts in History program.

**HIST101 WORLD CIVILIZATIONS I 3 sem. hrs.**

This course presents a survey of world history from the beginning to the middle of the 17th century. It traces the development and growth of civilizations in Asia, Africa, Europe, the Middle East, and Latin America. This course is approved for General Education: Core 2.

**HIST102 WORLD CIVILIZATIONS II 3 sem. hrs.**

This course emphasizes the continuing development of political, economic, religious, aesthetic and social achievement while underscoring the interplay of contemporary world areas and people. This course is approved for General Education: Core 2

**HIST103 TWENTIETH CENTURY WORLD 3 sem. hrs.**

This course examines the history of the 20th – 21st centuries by focusing on science, technology and their impact on human society, and interpreting human experience in the light of significant historical, economic, social and political contemporary changes. This course is approved for General Education: Core 2.

**HIST105 THE HOLOCAUST ON FILM 3 sem. hrs.**

This course introduces the student to the history of Holocaust in World War II and its representation and documentation in cinematic works of fiction and nonfiction.

The course places particular emphasis on issues of moral responsibility in situations in which groups and individuals are compelled to choose between good and evil. This course is approved for General Education-Core 6.

**HIST205 INTRODUCTION TO MULTICULTURAL AMERICA 3 sem. hrs.**

This course surveys the history and culture of the many ethnic groups in the United States in the context of social class, gender, education, and age. It also examines topics such as race, immigration, religion, politics, the role of the family, education, and the impact of these groups on mainstream American society. This course is approved for General Education – Core 5.

**HIST261 HISTORY OF U.S. I 3 sem. hrs.**

This course surveys the political, economic, social and cultural development of the United States. The first course covers the period from the Colonial period to the end of Reconstruction. This course is approved for General Education – Core 3.

**HIST262 HISTORY OF U.S. II 3 sem. hrs.**

This course is a survey of the political, economic, social, and cultural development of the United States from the period of Reconstruction to the present. Emphasis is placed upon human rights in a multi-ethnic, plural world and the role of race, nation, gender and age in society. This course is approved for General Education – Core 3.

**HIST271 AFRICAN AMERICAN HISTORY I 3 sem. hrs.**

This course surveys the cultural, economic, political, and social developments of the African American experience in the United States from the colonial period to the urban migrations in the 1890s. This course is approved for General Education – Core 5.

**HIST272 AFRICAN AMERICAN HISTORY II 3 sem. hrs.**

This course surveys the cultural, economic, political and social developments of African-Americans in the United States from the end of reconstruction to the ghetto rebellions of the 1960s. This course is approved for General Education – Core 5.

**HIST 282 ETHICS, CULTURE AND AMERICAN EDUCATION 3 sem. hrs.**

This interdisciplinary and collaborative course combines faculty from education and history to provide knowledge of moral theories, historical background of American education, examination of current issues in education and an education-related service component



as they apply to ethical dilemmas, analysis, problem solving and moral reasoning in the current educational environment. This course also includes a service learning environment. This course is approved for General Education Core 6.

**HIST300 INTRODUCTION TO HISTORICAL RESEARCH**  
3 sem. hrs.

This course introduces students to the basic skills and methods of historical research. It stresses the appraisal and interpretation of sources, assessment of questions and identification of data sites, data gathering, and writing. Prerequisite: **HIST100, ENGL102, MATH260**, and Junior Standing or permission of instructor.

**HIST302 HISTORY OF EAST ASIA**  
3 sem. hrs.

This course examines economic, political, social and cultural development of the major countries in East Asia and the Pacific Islands emphasizing those forces and movements of the past which are most significant in the understanding of the present. Graduate students will demonstrate a deeper understanding of the complexities of the history of East Asia as determined by the instructor. This course is approved for General Education – Distribution 2. Prerequisite: Sophomore or permission of the Instructor.

**HIST305 CHINA, PAST AND PRESENT**  
3 sem. hrs.

This course briefly examines dynastic changes, philosophy and religions, and family and society of traditional China, but greater emphasis will be placed on contemporary history of China since the Opium War. Graduate students will be required to demonstrate a deeper understanding of Chinese history.

**HIST306 THE UNITED STATES AND ASIA**  
3 sem. hrs.

This course introduces the major principles of the U.S. foreign policy toward Asia with special emphasis on East Asia during the 19th and 20th centuries. Students will learn the history of the United States diplomatic/commercial relations with East Asia as well as history of the six Asian wars in which the United States was involved. Prerequisites: **ENGL 102** or and approved second level research-writing skills course and completion of Core 2.

**HIST309 JAPAN, PAST AND PRESENT**  
3 sem. hrs.

This course briefly introduces traditional Japan but focuses on contemporary Japan since the creation of the Tokugawa Shogunate in the 17th century. Graduate students will be required to demonstrate a deeper understanding of Japanese history. Prerequisite: Sophomore or permission of the Instructor.

**HIST312 HISTORY OF THE MIDDLE EAST II**  
3 sem. hrs.

This course, divided into two parts, surveys the history of the Middle East from the rise of Islam to the present with emphases on the national and international factors which have influenced the emergency of Arab States and Arab nationalism. The course also deals with the rise and development of the social, cultural, and political institutions in the Middle East. The second part of the sequence begins in 1919. This course is approved for General Education – Distribution 2. Prerequisite: Sophomore or **HIST102** or permission of the Instructor.

**HIST313 HISTORY OF WITCHCRAFT**  
3 sem. hrs.

This course examines the history of witchcraft, and allegations of, in Europe and the United States from the early Middle Ages to the present. It particularly analyzes the role women played in the “witchcraze” through the 17th century in Europe and New England. Special attention will be given to the reaction of Christianity to the real and imagined practice of witchcraft, focusing on persecutors, practitioners, and victims. Prerequisite: Sophomore or **HIST102** or permission of the Instructor.

**HIST314 HISTORY OF WOMEN IN EUROPE**  
3 sem. hrs.

This course studies the political, social, and economic history of women in Europe from antiquity to the present. It examines and analyzes traditional assumptions about women, but gives particular emphasis to the roles/contributions of women since the Renaissance. This course is approved for General Education – Distribution 2. Prerequisite: Sophomore or **WMST204** or **HIST102** or permission of the Instructor.

**HIST315 HISTORY OF WOMEN IN THE U.S.**  
3 sem. hrs.

This course studies the political, economic, and social history of women in the United States from colonization to the present. Graduate students will demonstrate a deeper understanding of the complexities of U.S. women’s history as determined by the instructor. This course is approved for General Education – Distribution 2. Prerequisites: Completion of a minimum of 30 hours and one of the following: **ENGL102, HIST100, HIST261, HIST262, WMST204**, or permission of the instructor.

**HIST316 HISTORY OF WOMEN IN GLOBAL SOCIETIES**  
3 sem. hrs.

This course studies the history of women in a global context. It examines their status in precolonial times but concentrates on women since the beginning of the independence movements, analyzing their roles in the

struggles for liberation. Graduate students will demonstrate a deeper understanding of the complexities of women’s history in global societies as determined by the instructor. This course is approved for General Education – Distribution 2. Prerequisite: **WMST204** or **HIST102** or permission of the Instructor.

**HIST318 COLONIAL AFRICA**  
3 sem. hrs.

This course examines the history of Africa south of the Sahara between 1800 and 1945, with an emphasis on the European conquest and partition of the continent, the policies and realities of colonial rule, and the formative stages of African nationalism. This course is approved for General Education – Distribution 2.

**HIST319 HISTORY OF MODERN AFRICA**  
3 sem. hrs.

This course deals with the final stages of the struggle against European colonialism and the era of independence. The recent history of selected nations is studied in detail. The crucial problems facing Africa as it enters the 21st century are also examined and analyzed. This course is approved for General Education – Distribution 2.

**HIST320 WOMEN AND WITCHCRAFT IN AFRICA**  
3 sem. hrs.

This course examines historical and contemporary beliefs and manifestations of witchcraft in Africa. It analyzes the centrality of women as victims and victimizers at the hands of both traditional religious practitioners and Christian healers. It emphasizes the convergence of the modern and traditional and women’s location within that matrix and how these ideas have in turn shaped the history of African societies. Prerequisite: Sophomore or **HIST313** or permission of the Instructor.

**HIST321 OPENING THE CLOSET: GAY & LESBIAN HISTORY IN AMERICA, 1608-PRESENT**  
3 sem. hrs.

This course surveys gay and lesbian history in the United States from establishment of the first English colonies to the present. While it introduces theoretical concepts and analytical paradigms, such as Queer Theory and the work of Richard von Krafft-Ebing and Alfred Kinsey, it focuses on analyzing the historical record and tracing evolving understanding of same-sex attachment in American culture. Prerequisites: **ENGL102** or consent of the instructor.

**HIST323 COLONIAL LATIN AMERICAN HISTORY**  
3 sem. hrs.  
This course studies the Latin American world from Pre-Columbian times through the Wars of Independence, emphasizing the impact of Spanish culture on the native population. It includes an examination of the Wars of Independence period: causes, major personalities, results, and principal ideas in the history of Brazil. Prerequisites: **ENG102** or an approved second level research course and one of the following: **LAS204, SPAN100, HIST102, POLI200, POLI102, GEOG101, GEOG130.**

**HIST324 MODERN LATIN AMERICAN HISTORY**  
3 sem. hrs.  
This course examines the history of selected nations in Latin America during the modern period, including the Wars of Independence. It also emphasizes the major problems which faced the newly formed countries of the National Period and concludes a study of the countries of Latin America, the Caribbean, and South America. Prerequisites: **ENGL 102** or a second level research course and completion of one of the following: **SPAN 100, HIST 102, POLI 341, GEOG 365, HIST 323, or HIST 329-POLI 329.**

**HIST329 CUBA-UNITED STATES RELATIONS**  
3 sem. hrs.  
This course studies the relationship between Cuba and the United States since 1898. It also examines the influences of race, class, gender, and politics, paying particular attention to the effect of globalization on Cuban-U.S. relations. Students enrolling in this course may register for history or political science credit.

**HIST330 WORLD WAR II: CAUSES THROUGH CONSEQUENCES**  
3 sem. hrs.  
This course presents the broad social, political, economic, and technological dimensions of the origins, course, and consequences of World War II. This course is approved for General Education – Distribution 2. Prerequisite: History or Political Science major with Sophomore standing. Any major with Junior standing or any of the following: **HIST102, HIST262, HIST375** or permission of the instructor.

**HIST331 ANCIENT HISTORY TO THE FALL OF THE ROMAN EMPIRE**  
3 sem. hrs.  
This course studies the origin and development of early man and his achievements as manifested in the ancient civilization. It will include early civilizations of Asia, Africa, the Western Hemisphere, and Oceania, as well as those surrounding the Mediterranean.

**HIST332 MEDIEVAL EUROPE**  
3 sem. hrs.  
This course stresses the development of European civilization and culture from the 5th century A.D. to about the middle of the 15th century A.D. Emphasis is placed on major social and economic attainments, on the work of the church, on political developments, and on intellectual movements. Graduate students will demonstrate a deeper understanding of the complexities of Medieval European history. Prerequisite: History major with Sophomore standing, English, Art or Art History major with Junior standing, Any major with Junior standing, Any major with any of the following: **HIST101, ENGL241 or ARHI344** or permission of the instructor.

**HIST333 HISTORY OF TERRORISM**  
3 sem. hrs.  
The course examines the history of terrorism. Special attention will be given to the acts which constitute terrorism, their underlying causes, and how societies have dealt with them. This course is approved for General Education – Distribution 2. Sophomore standing or **HIST102** or History, Political Science or Sociology major or permission of the instructor.

**HIST334 HISTORY OF CHRISTIANITY**  
3 sem. hrs.  
This course studies the political, social, and economic history of Christianity. It also examines the causes and results of Christianity's geographic expansion, and draws comparisons between its various forms and expressions. Graduate students will demonstrate a deeper understanding of the complexities of the history of Christianity. This course is approved for General Education – Distribution 2. Sophomore standing or one of the following: **HIST101, HIST102, SOC100, PHIL200 or PHIL240** or permission of the instructor.

**HIST335 THE HISTORY OF SPORTS**  
3 sem. hrs.  
This course is an introduction to the social and cultural history of sports from the ancient to the modern world with particular emphasis upon sports in the United States during the 19th and 20th centuries. Attention is focused upon the development of organized sports from 1860 to 1920, and the initial democratization of sports for participants and spectators in the 20th century. This course is approved for General Education – Distribution 2.

**HIST336 HISTORY OF RELIGION IN AMERICA**  
3 sem. hrs.  
This course examines the history of religion from the colonial period to the present. It particularly studies the varieties of indigenous and transplanted religions and their impact on the development of the American nation. Prerequisites: Sophomore standing or **SOC 100.**

**HIST339 HISTORY OF MODERN GERMANY**  
3 sem. hrs.  
This course examines modern German history beginning with the growth of the nation state, influence of the French Revolution, revolution and counter-revolution, World Wars I and II, rise of Hitler, and reconstruction after 1945. It also analyzes the impact of the Cold War and its conclusion on Modern Germany. Graduate students enrolled in this course will be required to demonstrate a deeper understanding of the complexities of Modern German history. Prerequisite: Completion of one of the following--Core 2, **GERM100, HIST100, HIST341,** or permission of the instructor.

**HIST341 HISTORY OF NAZI GERMANY**  
3 sem. hrs.  
This course surveys the origins and development of the NSDAP (National Socialist German Workers Party, or Nazi) which held power in Germany from 1933 to 1945. It concentrates on the major political leaders and processes, the goals and appeal of the Nazis, and their impact upon Germans and Europeans. Graduate students enrolled in HIST642 will also be required to complete a substantial analytical or bibliographical paper as a fundamental requirement of the course. This course is approved for General Education -Distribution 2. Prerequisite: sophomore standing.

**HIST343 ERA OF THE FRENCH REVOLUTION AND NAPOLEON**  
3 sem. hrs.  
This course studies the causes and development of the French Revolution and its effect on the society of Europe and the Old Regime. It also traces the rise of Napoleon and his impact – political, social, economic, and military – on France and Europe, culminating in his defeat at Waterloo. Prerequisite: History or Political Science major with Sophomore standing. Any major with any of the following: Any French course, **HIST102** or six hours of upper-level History courses or permission of instructor.

**HIST351 HISTORY OF WOMEN AND CRIME**  
3 sem. hrs.  
This course examines the history of women in crime from the colonial period to the present. The course will use case studies to analyze women who engaged in criminal activity. It will also consider the impact of race, gender, ethnicity, and class within the broader context of U.S. as well as time and space. An important element will be to examine the changing definitions of female crimes over time. Prerequisite: Students must take one of the following: **HIST261, HIST262, HIST315, HIST372,** or **CRIM100.**

**HIST353 HISTORY OF RUSSIA TO 1825 3 sem. hrs.**

This course surveys the historical development of Russia from her origin to the end of the reign of Alexander I, emphasizing the political, economic, social, and cultural forces that have shaped her history and made her development distinct from Western Europe. Prerequisite: Sophomore standing or permission of instructor.

**HIST355 HISTORY OF RUSSIA SINCE 1825 3 sem. hrs.**

This course examines Russia from 1825 through the present. It covers the Russian empire, U.S.S.R., and the Russian Federation. Emphases include relationships of economic development, politics, competing ideologies and foreign policies. Prerequisite: Sophomore standing or permission of instructor.

**HIST358 HISTORY OF ENGLAND SINCE 1815 3 sem. hrs.**

This study of the post-Napoleonic period of English History will emphasize the further growth of an industrial society, the development of political democracy, the rise of socialism, the international crisis and the rise and fall of the British Empire. This course is approved for General Education – Distribution 2.

**HIST361 AMERICAN COLONIAL HISTORY 3 sem. hrs.**

This course studies political, economic, social, religious, military and cultural development of the thirteen American colonies, tracing their European origins, exploration, and settlement, the French and Indian War, and the causes of the American Revolution. This course is approved for General Education – Distribution 2.

**HIST362 THE AMERICAN REVOLUTION 3 sem. hrs.**

This course covers the origins, nature, and consequences of the American Revolution, emphasizing social and economic factors, revolutionary thought, and the drafting and ratification of the constitution. Prerequisite: History or Political Science major with sophomore standing. Any major with Junior standing and any of the following: **HIST261**, US History I or 6 hours of upper-level History courses or permission of instructor.

**HIST363 THE EARLY REPUBLIC 3 sem. hrs.**

This course studies in depth the United States from the development toward federalism about 1783 to the sectional challenge around 1848, devoting special attention to cultural development, economic and urban growth, community power structures, classes and social mobility, and ethnicultural conflict. Prerequisite: History or Political Science major with sophomore standing. Any major with junior standing and any of the following: **HIST261**, US History I or 6 hours of upper level History courses or permission of instructor.

**HIST364 IMMIGRANT GROUPS IN AMERICAN SOCIETY 3 sem. hrs.**

This course examines the causes and consequences of the major waves of immigrants to the United States from colonial times to today, the course will also take into account the forces that uprooted the Europeans from their homes, the social process of immigration and the crises that tested the immigrant's adjustment to American life. The last part of the course will focus on "new" immigrants from eastern and western hemispheres, their impact on American Society and its impact on them. Prerequisite: sophomore standing or permission of instructor. This course is approved for General Education – Distribution 2.

**HIST366 U.S. SINCE 1945 3 sem. hrs.**

This course examines America from the end of World War II through the present. It traces the Cold War and the great social changes that accompanied it. It further examines the consequences of the end of the conflict. This course will also trace the presidencies of Roosevelt through Clinton. Prerequisite: sophomore standing or permission of instructor. This course is approved for General Education – Distribution 2.

**HIST368 HISTORY OF AMERICAN LABOR 3 sem. hrs.**

This course studies the rise of American labor, presenting it as an integral part of American political, economic, industrial, and social history. It focuses attention on the pre-Civil War developments, upon which most labor institutions and traditions are based, and examines labor's impact upon American institutions. Graduate students will demonstrate a deeper understanding of the complexities of labor history.

**HIST370 THE AMERICAN DREAM ON FILM 3 sem. hrs.**

With the aid of films (silent and talkies), documentaries, outside readings, written reports, and critiques, the course will focus on the theme of myth and reality in American history. Throughout the course, there will be a continuous attempt to re-interpret the various historical myths that have been isolated and identified and emphasis will be placed on their impact in shaping American history. Prerequisite: Sophomore standing or one of the following: **HIST262**, **ARHI105** or permission of instructor. This course is approved for General Education – Distribution 2.

**HIST372 HISTORY OF AMERICAN VIOLENCE 3 sem. hrs.**

This course examines the varied nature of American violence from the colonial period to the present. It examines the nature of violence as it relates to race, gender, class, politics, economics, and the media. It emphasizes the motivations for violence and the methods American society has historically employed

to control violence. Prerequisite: Sophomore standing or one of the following: **HIST261**, **HIST262**, **HIST271**, **HIST272**, **HIST375** or permission of instructor.

**HIST373 THE TURBULENT SIXTIES 3 sem. hrs.**

This course deals with the major developments of the 1960s in the United States, such as the civil rights movement, the Vietnam War, the peace movement, counter culture, the rebellion of the youth, and domestic politics. It also examines their effects of these developments into the 21st century. Prerequisite: Sophomore standing or permission of instructor. This course is approved for General Education – Distribution 2.

**HIST375 U.S. MILITARY HISTORY 3 sem. hrs.**

This course studies the development of the American colonial and United States military and naval establishments, emphasizing the evolution, growth, and problems of military and naval policy rather than on specific wars. Prerequisite: History or Political Science major with sophomore standing. Any major with junior standing, or any of the following: **MILS301** (concurrent enrollment), **HIST261**, **HIST262** or permission of instructor. This course is approved for General Education – Distribution 2.

**HIST376 U.S. IN VIETNAM 3 sem. hrs.**

This course surveys the origins and development of U.S. involvement in the Vietnam conflict from the end of the Second World War to the fall of Saigon in 1975. The origins and impact of Vietnamese nationalism and the nature and consequences of French colonial policy will also be examined. Special attention will be given to the evolution of U.S. political and military strategy, the wider impact of the war on the U.S. military, and the influence of the antiwar movement on the American home front. **Prerequisite: Sophomore Standing.**

**HIST377 AMERICAN URBAN DEVELOPMENT 3 sem. hrs.**

This course pertains to the historical evolution of U.S. cities from mid-nineteenth century to the post-World War II era. It emphasizes urban historiography, the process of urbanization, population growth and demographic change, social and geographical mobility, the relationship between technology and the urban environment, the development of municipal services, and the dichotomy between urban political machines and reformers. This course is approved for General Education – Distribution 2. Prerequisite: sophomore standing or permission instructor.

**HIST378 AMERICAN WEST****3 sem. hrs.**

This course traces the settlement and development of the Trans-Mississippi West of the United States, starting with the prehistoric migrations of American aborigines. Among the topics emphasized are Native American culture and heritage, Spanish and American explorations, the fur trade, mining operations, the cattle-kingdom, agriculture, the use and abuse of natural resources, violence, and ethnic and racial diversity. Prerequisite: sophomore standing or permission instructor. This course is approved for General Education – Distribution 2.

**HIST379 U.S. POLICE HISTORY****3 sem. hrs.**

The purpose of this course is to trace the historical development of U.S. law enforcement agencies from colonial times to the present. Among the themes to be emphasized are the evolution of a uniformed- salaried police, the role of politics in law enforcement, and the growth of professionalism. Prerequisite: sophomore standing or HIST262 or permission instructor. This course is approved for General Education – Distribution 2.

**HIST380 HISTORY OF PENNSYLVANIA****3 sem. hrs.**

This course studies in depth the founding and development of Pennsylvania from the colonial era to the 20th century. It emphasizes the unique contributions of Pennsylvania in political, economic, social, and cultural areas and major problems facing the people of Pennsylvania today. Prerequisite: Sophomore standing or permission instructor. This course is approved for General Education – Distribution 2.

**HIST383 AMERICA AND THE REVOLUTIONARY WORLD****3 sem. hrs.**

This course is an historical examination of American efforts to address a series of revolutions from the 1940s to the present. This course will assess the role of the U.S. government, and its involvement in coups, assassinations, and propaganda programs. It will further address the conditions and circumstances in foreign countries that prompted U.S. involvement and the counter revolutionary movements with which it was associated. Prerequisite: Sophomore standing or one of the following: HIST262, HIST310, HIST312, HIST319, HIST323 or HIST324, or permission of the instructor.

**HIST394 SPECIAL TOPICS IN HISTORY****3-12 sem. hrs.**

This course will focus on a specific topic in History suitable for advanced students. The

content will vary from semester to semester according to interests of the students and faculty. Students may repeat this course up to four times for different topics. **Graduate students will be required to demonstrate a deeper understanding of the content of each topics course.** Prerequisites: junior standing and permission of the instructor.

**HIST395 FIELD EXPERIENCES IN HISTORY****2-5 sem. hrs.**

Emphasis is placed upon developing historical research skills through supervised internships or field work at archives or historical sites. Utilizing college archives, Erie and Crawford County records, municipal materials, or material available at other sites in the United States or abroad. The student will acquire advanced historical research skills and will prepare a substantial paper. Credit as arranged. Prerequisite: History major or any major with junior standing and 6 hours of History courses or permission of instructor.

**HIST401 CONTEMPORARY NATIONAL/ INTERNATIONAL ISSUES****3 sem. hrs.**

An interdisciplinary analysis of some important issues of the day, such as ideological conflict, economic growth, technological development, political participation, social justice, urban problems, environmental deterioration, discrimination against minorities, and foreign policy.

**HIST402 DIGITAL HISTORY****3 sem. hrs.**

This seminar will focus on the process of research, writing, and creating digital history. The course readings, workshops, and discussions expose students to the philosophy and practice of the emerging field of History and New Media as it is used to present History. Prerequisites: Successful completion of one of the following: HIST300, COMM360, or permission of the instructor.

**HIST405 MODERN AFRICAN CIVIL RIGHTS MOVEMENT****3 sem. hrs.**

This course offers a detailed examination of the modern civil rights movement from World War II to the present. It will examine the historical roots of the movement that began with Jim Crow and segregation. Furthermore, the course will research the legacy, triumphs and failure of the civil rights movement. It will provide an in-depth analysis and critique of the issues, goals, objectives, organizations, activists and leaders of the movement. The course will emphasize reading and researching primary documents. **Prerequisites: Sophomore standing or by permission of instructor.**

**HIST410/ ORAL HISTORY****HIST610 3 sem. hrs.**

This course offers a detailed examination of oral histories. It introduces the student to oral history as a historical source and the complications of planning, development and operation of oral history projects for colleges, libraries, museums, corporations, professional organizations and public schools. The course will further emphasize finding interview subjects, research and preparation for interviewing, interviewing techniques, post-interview procedures, transcription, legal issues, management of oral history collections, and the uses of oral history. Prerequisites: HIST300.

**HIST411 PUBLIC HISTORY****3 sem. hrs.**

This course offers an examination of public history, or history beyond the academic setting. Students will learn how it differs from the history taught in university classrooms. Students will examine what the American public thinks about history and what it wants from history. These issues will be used by the class to explore public history as a concept and as a practice. Prerequisites: HIST300.

**HIST415 HISTORY OF AFRICAN-AMERICAN WOMEN****3 sem. hrs.**

This course surveys the experiences of African-American women from the colonial period to the present. It examines the West African heritage, and African-American women's struggle and contributions to the political, economic, and social history of this nation. An important component is an examination of the intersection of race, class, and gender. Prerequisite: Sophomore standing or one of the following: HIST271, HIST272, HIST315 or permission of instructor.

**HIST421 EXPLORING THE CLOSET: SEMINAR IN GAY & LESBIAN HISTORY****3 sem. hrs.**

This seminar deals with gay and lesbian history in the Western world with a culminating focus on the United States. It explores the historiography and historical record of this attraction in Western and American culture. Students will use a variety of theoretical frameworks to analyze historical data, draw conclusions, and integrate these conclusions into the broader story of American history. Prerequisites: ENGL102 and Junior standing, or consent of the instructor.

**HIST425 HISTORY OF MANHOOD IN AMERICA****3 sem. hrs.**

This course deals with the development of ideas of "manhood" in the United States. It explores the Classical and Medieval roots of American masculinity, the transmission of these ideas to the New World, and how

the social, cultural, physical and political environment of the United States affected these ideas. Prerequisites; ENGL102, Junior standing, or consent of the instructor.

**HIST431 HISTORY OF IRELAND**  
3 sem. hrs.

This course examines selected topics in the political, economic, and cultural history of Ireland. Prerequisites: ENGL102, HIST101, and HIST102.

**HIST432 HISTORY OF SCOTLAND**  
3 sem. hrs.

This course examines selected topics in the history and culture of Scotland from prehistoric times to the 20th century. Prerequisites: ENGL102, HIST101, and HIST102.

**HIST435 ARCHIVAL THEORY**  
3 sem. hrs.

This course introduces the students to the principles of archival theory. It examines the basic tenets of how to appraise material, how to preserve the material, how to arrange and describe the material and finally, how to provide access to it. Students will also be introduced to the archival profession as a career option. Prerequisite: HIST100.

**HIST475/ HISTORY OF MILITARY  
HIST680 THOUGHT** 3 sem. hrs.

This course examines the evolution of thinking on war, strategy, and military affairs. It is based on primary source readings of Western and Non-western writers from antiquity to the present. The focus is on those writers whose influence has been most far-reaching and influential. Prerequisite: ENGL 102 and Junior standing.

**HIST476 HISTORY OF WOMEN  
AND WAR** 3 sem. hrs.

This course is an historical examination of the contributions, experiences, and impact of women in the U.S. during times of war, using examples from the American Revolution, the U.S. Civil War, Korea, Vietnam and Persian Gulf War (s). Special emphasis will be placed upon women's roles during World War II. Prerequisites: Students must have completed ENGL 102 and of the following: HIST 315, 415, 515, 330, 375, 376, ENGL 365, WMST 204 or permission of instructor.

**HIST478 INDIAN WARS OF THE  
AMERICAN WEST**  
3 sem. hrs.

This course is an historical examination of the 18<sup>th</sup> and 19<sup>th</sup> century Indian Wars of the American West. This course will assess the role of the government, inter-tribal dynamics, and Native American strategies for coping with the Euro-American invasion. Prerequisite: HIST261 or HIST262 or HIST378.

**HIST482 THE OLD SOUTH:  
SOUTHERN CULTURE  
BEFORE THE CIVIL WAR**  
3 sem. hrs.

This course studies the history and culture of the U.S. South prior to 1877. Focusing on the key issues that dominated southern culture during this period, the course examines and analyzes the myths and realities of southern life. Prerequisite: Students must have completed one of the following: HIST261 or HIST271, and have junior standing, or permission of instructor.

**HIST490 INDEPENDENT STUDY IN  
HISTORY** 2-5 sem. hrs.

The Independent Study program aims to serve those students whose scholarly bent seems most clearly adapted to independent work. Students are permitted to resolve problems and to earn credit for work performed outside the classroom requirement of any specific course in the curriculum.

**HIST495 INTERNSHIP IN HISTORY**  
3-12 sem. hrs.

This internship provides students the opportunity to apply, improve, and develop historical skills in a variety of settings, including historic sites, archives, and other locations where institutional histories are being developed.

**HIST497 CAPSTONE IN HISTORY**  
3 sem. hrs.

Students taking this course will demonstrate their effective writing skills, oral communication skills and creative expression as well as professionalism in their interactions with other students and faculty. They will use the knowledge and the skills they have learned in their History courses as well as courses outside the major to conceptualize and produce original projects that fully integrate their university experience. Prerequisite: History majors only or permission of instructor. Students must have completed HIST300 before taking this course.

**HIST498 PRACTICUM IN DIGITAL  
HISTORY** 3-12 sem. hrs.

The Practicum in Digital History provides students with the opportunity to develop the tools necessary to produce a digital history product. Prerequisite: Successful completion of one of the following: JOUR419 or HIST402.

**HIST515 HISTORY OF FEMINISM  
IN ACTION** 3 sem. hrs.

This course examines the emergence and history of feminist thought and action, focusing primarily on the 19th and 20th centuries. It analyzes the impact of feminism on political, social, and economic matters. It also emphasizes the intersection of race, class, and gender as they relate to the feminist movement. Prerequisite:

Sophomore standing or one of the following: ENGL102, ENGL311, ENGL365, ENGL420 or HIST262, HIST314, HIST315, HIST316, HIST415 or WMST262, or permission of instructor.

**HIST537 HISTORY OF EUROPE:  
19TH CENTURY** 3 sem. hrs.

In this course, the political, social, and economic changes which occurred in Europe between 1815 and 1914 are studied. Attention will be focused on the Concert System, the forces of liberalism, nationalism, democracy, the industrial revolution, the unification of Germany and Italy, diplomatic developments, the Second Industrial Revolution, and origins of World War I.

**HIST538 HISTORY OF EUROPE:  
20TH CENTURY** 3 sem. hrs.

A detailed study of the political, social, economic, and cultural changes in Europe which have occurred since World War I is made. Emphases are placed on such powerful forces as militarism, nationalism, imperialism, fascism, and communism. The effects of the Versailles Settlement, the Depression, the Second World War, and the Cold War upon the internal and external policies of European nations are analyzed.

**HIST541 THE HOLOCAUST IN  
HISTORY** 3 sem. hrs.

This course examines the Third Reich's systematic murder of millions of Jews and other targeted populations during the Second World War. The nature of genocide, the evolution of anti-Semitism, the ideology and methodology of Nazi mass murder, and the metahistorical consequences of this tragic event will be considered in detail.

**HIST565 SLAVERY, CIVIL WAR,  
AND RECONSTRUCTION**  
3 sem. hrs.

This course will examine the causes, pressure, and events leading to the disruption of the Union. It will include political, economic, and social developments during the war period, in addition to a study of the military and naval operations. The struggle for the reestablishment of the Union will be explored in light of recent revision and contemporary events.

**HONS200 RELIGION, POPULAR  
CULTURE, AND  
DIVERSITY** 3 sem. hrs.

This course examines the role and influence of diversity in the U.S. experience by analyzing the impact of religion, popular culture, race, gender, class, and ethnicity. Prerequisite: Enrollment in the Dr. Robert C. Weber Honors Program or permission of instructor(s).

**HPE063 PHYSICAL FITNESS****1 sem. hr.**

This course will focus on three facets of physical fitness: flexibility, muscular strength and cardiorespiratory endurance. Weight control will also be discussed with possible programming if an individual need arises. Running, weight training and calisthenics will be the predominant activities. This course is approved for General Education – Health and Physical Education 2.

**HPE101 YOU MAKE THE CALL: CONTROVERSIES AND ETHICAL ISSUES IN SPORTS****3 sem. hrs.**

This course provides students with content and activities that will develop critical thinking skills, acquaint them with moral principles, and allow them to develop and explore their moral values. Examples of topics that will be covered in this course includes issues of racial and gender equity in sports, performance-enhancing technologies, fiscal concerns such as collegiate sponsorship and professional salaries, and off-the-field behaviors such as violence and abuse. Approved for General Education – Core 6

**HPE105 HEALTH****2 sem. hrs.**

This course helps students attain a satisfactory emotional and social adjustment, maintain his/her own health, and cooperate in solving community health problems. Also, it prepares students for the responsibilities of family life and citizenship.

**HPE111 WELLNESS/BICYCLING****3 sem. hrs.**

This course teaches students to improve and maintain their wellness. It provides content in important wellness areas as well as the opportunity to improve skill and fitness through cycling. Participants must provide their own bicycle and helmet. This course replaces all HPE general education courses from HPE052-HPE110.

**HPE112 WOMEN'S WELLNESS/ WEIGHT TRAINING AND AEROBICS****3 sem. hrs.**

This course teaches students to develop personal aerobic programs that emphasize cardio respiratory endurance, various types of aerobic programs for women, as well as considerations for weight control, nutrition, warm-up, and principles of flexibility. It also introduces weight training techniques that identify physiological considerations, lifting and spotting fundamentals, selective and arrangement of exercises and manipulating training leads, repetitions, and sets. This course replaces all HPE general education courses from HPE052-HPE110.

**HPE113 WELLNESS/WALKING****3 sem. hrs.**

This course teaches students basic concepts for healthy living. Walking as an activity which helps reach goals of wellness and fitness. This course replaces all HPE general education courses from HPE052-HPE110.

**HPE114 WELLNESS/TENNIS****3 sem. hrs.**

This course provides content in the wellness areas, as well as the opportunity to improve skill and fitness through tennis. This course replaces all HPE general education courses from HPE052-HPE110.

**HPE115 WELLNESS/SOCIAL DANCING****3 sem. hrs.**

This course teaches students basic concepts for healthy living. The social dance portion uses dance as an activity to accomplish wellness/fitness goals. This course replaces all HPE general education courses from HPE052-HPE110.

**HPE116 LIFEGUARDING****3 sem. hrs.**

This course meets the standards of the American Red Cross for lifeguarding. It has the three distinct components required for ARC lifeguards: first aid, CPR, and responding to water emergencies. Successful completion of each component can result in certification by the American Red Cross. Prerequisite: swimming skills pre-test by instructor.

**HPE118 WELLNESS/GOLF****3 sem. hrs.**

This course provides students with a background of scientific knowledge related to health education. It also studies recent developments and controversial issues in health information. Golf is presented as a recreational lifetime activity. An additional fee will be charged for this course.

**HPE121 WELLNESS/CROSS COUNTRY SKIING****3 sem. hrs.**

This course provides students with a background of scientific knowledge related to health education. It also studies recent developments and controversial issues in health information. Cross country skiing is presented as a recreational lifetime activity. An additional fee will be charged for this course.

**HPE124 WELLNESS/STEP AEROBICS****3 sem. hrs.**

This course provides students with a background of scientific knowledge related to health education. It also studies recent developments and controversial issues in health information. STEP aerobics is presented as a recreational lifetime activity.

**HPE125 WELLNESS/AQUATICS FITNESS****3 sem. hrs.**

This course provides students with a background of scientific knowledge related to health education. It also provides information about recent developments and controversial issues in health. Aquatics fitness is presented as a recreational lifetime activity.

**HPE126 WELLNESS/WEIGHT TRAINING****3 sem. hrs.**

This course provides students with a background of scientific knowledge related to health education. It also provides information about recent developments and controversial issues in health. Weight training is presented as a recreational lifetime activity.

**HPE132 HEALTH AND FITNESS PROMOTION IN THE WORKPLACE****3 sem. hrs.**

This course is designed to help prepare individuals to plan, implement and manage health promotion programs in various business and industrial work places.

**HPE133 PERSONAL HEALTH****3 sem. hrs.**

This course assists students to acquire a background of scientific knowledge related to health education. It also studies recent developments and controversial issues in health information. It emphasizes topics commonly taught in public school health settings in anticipation of a teaching career in this field.

**HPE135 ALCOHOL, TOBACCO AND OTHER DRUG EDUCATION****3 sem. hrs.**

This course surveys issues surrounding the use, misuse, and abuse of licit and illicit drugs, including, but not limited to, alcohol, tobacco, over-the-counter and prescription drugs, performance enhancing drugs, and habituating and addictive substances. Prevention and intervention strategies are also incorporated.

**HPE145 INTRODUCTION TO RECREATION AND LEISURE MANAGEMENT****3 sem. hrs.**

This course discusses the foundations and gives a general overview of basic concepts in Recreation and Leisure Management. The course touches on historical, current, and future perspectives in Recreation and Leisure Management.

**HPE215 PEDAGOGY FOR INDIVIDUAL ACTIVITIES: AQUATICS, GYMNASTICS, AND ADVENTURE ACTIVITIES 3 sem. hrs.**

This course will provide for the development and improvement of knowledge and basic skills in swimming, tumbling/gymnastics and adventure activities. Safe practices as well as various methods and techniques will be emphasized.

**HPE220 PEDAGOGY FOR TEAM GAMES I: BASKETBALL/ SOCCER/TRACK AND FIELD 3 sem. hrs.**

This course prepares students to teach team games by providing background, basic skills, teaching techniques, game strategies, and class organization structure. Students learn to plan and teach team sport skills in developmentally progressive lessons.

**HPE222 PRINCIPLES OF FITNESS INSTRUCTION 3 sem. hrs.**

This course provides basic knowledge and skills involved in fitness instruction. Students are introduced to a variety of concepts related to resistance training instruction, aerobic exercise instruction, flexibility training instruction, and related fitness activities. Students will be introduced to requisite principles and skills leading to fitness instructor certification.

**HPE225 PEDAGOGY FOR TEAM GAMES II: VOLLEYBALL, SOFTBALL, FOOTBALL 3 sem. hrs.**

This course prepares students to teach team games by providing background, basic skills, teaching techniques, game strategies, and class organizational structure. Students learn to plan and teach team sport skills in developmentally progressive lessons.

**HPE230 PEDAGOGY FOR LIFETIME ACTIVITIES: GOLF, TENNIS, BADMINTON 3 sem. hrs.**

This course prepares students to teach lifetime activities of golf, tennis, and badminton by providing fundamental knowledge, basic skills, teaching techniques, and class organizational structure. Students will learn to plan and teach lifetime activities in developmentally progressive lessons.

**HPE245 HUMAN SEXUALITY 3 sem. hrs.**

This course reviews the biological, psychosocial moral, legal, and practical aspects of human sexuality. It prepares students to teach sexual health issues in school and community health settings.

**HPE252 LEADERSHIP IN RECREATION MANAGEMENT 3 sem. hrs.**

This course explores numerous topics relative to recreation and leisure management. Students gain exposure to various leadership and management styles. Practical elements of this course includes risk management, goal setting, decision making, marketing tactics, and communication skills.

**HPE265 HEALTH EMERGENCIES 3 sem. hrs.**

This course emphasizes decision making in first aid care and the provision of emergency assistance. Satisfactory completion of this course may lead to certification in Red Cross First Aid and CPR.

**HPE266 EMERGENCY MEDICAL TECHNICIAN I 3 sem. hrs.**

This course is a foundation for knowledge and skills that will be needed in advanced emergency medicine. Students will be trained to perform evaluations and treatments necessary to serve the public during a medical emergency.

**HPE270 SPORTS NUTRITION 3 sem. hrs.**

This course provides basic knowledge in the area of nutrition and its applications to physical activity, exercise, and human performance. Students are introduced to a variety of concepts related to macronutrients, micronutrients, metabolic rate and substrate utilization. Consideration is also given to special athletic populations, ergogenic aids, fluid intake and body composition.

**HPE278 PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL 3 sem. hrs.**

This course teaches the importance of physical education in elementary schools and demonstrates how such programs can be developed, organized, and implemented. A field experience provides students observation and participation in an elementary physical education setting.

**HPE300 APPLIED ANATOMY AND PHYSIOLOGY FOR HPE I 3 sem. hrs.**

This is the first course of a two course sequence involving the study of normal structure and function of the human body. Designed specifically for Health and Physical Education Majors, this course surveys the structure and function of the integumentary, endocrine, cardio vascular, lymphatic, immune, respiratory, digestive, and urinary systems. Emphasis will be placed on the effect

of exercise and fitness levels on each of these systems separately and the human body in general. Prerequisite: **BIOL101** or equivalent.

**HPE301 APPLIED HUMAN ANATOMY AND PHYSIOLOGY FOR HPE II 3 sem. hrs.**

The second of a two course sequence involving the study of normal structure and function of the human body. Designed specifically for Health and Physical Education Majors, this course will focus on structure and function of the skeletal, muscular, and nervous systems. Particular attention will be focused on motor behavior and its components; motor control, motor learning, and motor development with regard to the integration of these three systems. Prerequisite: **BIOL101** or equivalent.

**HPE306 CLASSROOM MANAGEMENT IN HEALTH AND PHYSICAL EDUCATION 3 sem. hrs.**

This course helps students acquire fundamental knowledge and skills in effective classroom management. Emphasis is placed on enabling the student to provide quality instruction within health education and physical education settings. Students are advised to complete this course prior to enrollment in HPE405 and HPE495.

**HPE310 CARE AND PREVENTION OF ATHLETIC INJURIES 3 sem. hrs.**

The purpose of this course is to offer theory and practice in the prevention, handling, and care of athletic injuries, and in the physical conditioning of athletes. The course is designed to meet the needs of the coach or trainer in the field, the student that is about to embark upon a coaching or training career, and physical education majors. The content will be preceded by an introduction to anatomy, physiology, and kinesiology, as related to professional needs in caring for athletic injuries.

**HPE311 PLANNING AND EVALUATION IN HEALTH AND PHYSICAL EDUCATION 3 sem. hrs.**

This course provides the foundation necessary to plan and evaluate health and physical education instruction in school and community settings. Specific areas of concentration include curriculum development and assessment, unit planning, program planning, and health and physical education evaluation in classroom and community settings. Prerequisites: 60 credits and one of the following courses: **HPE133, HPE135, HPE222, HPE245, or HPE265.**

**HPE312 ORGANIZATION AND ADMINISTRATION OF RECREATION AND SPORT PROGRAMS 3 sem. hrs.**

This course provides the foundation necessary to plan, evaluate, organize, and administrate recreation- and sport-related programs in a variety of professional settings. Specific areas of concentration include mission statements, needs assessment, program planning and development, goals and objectives, budgeting, risk management, and program assessment and evaluation in school, university, community, and other professional settings. Prerequisites: 60 credits.

**HPE314 KINESIOLOGY 3 sem. hrs.**

The purpose of this course is to study human movement and the physical and physiological principles upon which it depends. It analyzes human motion as based on anatomic, physiologic, and mechanical principles. This course includes laboratory experience in selected topics. Prerequisite: **HPE300** or consent of instructor.

**HPE315 MANAGEMENT OF SPORT AND PHYSICAL EDUCATION PROGRAMS 3 sem. hrs.**

This course describes the management and administrative duties in physical education and athletics. It studies problems, case studies, and strategies to help prepare the entry level manager to operate effectively in setting priorities for planning, evaluating, and implementing highly diverse activities. Students with credit in HPE122 and HPE426 may not take this course.

**HPE320 CONSUMER HEALTH 3 sem. hrs.**

The course presents the facts and fallacies of the health marketplace in an effort to help students become informed consumers. It examines how to maintain a healthy lifestyle, seek reliable sources of information and health care, avoid products and practices that lack scientific substantiation, and accept personal responsibility for dealing with deception in the marketplace.

**HPE323 SOCIO-CULTURAL FOUNDATIONS OF SPORT 3 sem. hrs.**

This course explores the socio-cultural foundations of sport regarding group processes, social influences, cultural determinants, and interpersonal relationships. The class will also investigate the relationship of sport and social development.

**HPE324 OUTDOOR RECREATIONAL PROGRAMMING 3 sem. hrs.**

This course examines the methodology of programming activities, planning processes, risk management, and emergency procedures of outdoor recreation programs. It also reviews environmental issues and the importance of equipment in relation to programs.

**HPE325 EMERGENCY MEDICAL TECHNICIAN II 3 sem. hrs.**

The material learned in this course will help the student assume responsibility at a medical or trauma emergency. The knowledge and skills learned will help prepare the student to administer proper assessments, care, packaging, and transportation of patients to the emergency department. Finally, this course can help prepare the student to register for the state emergency medical technician (EMT) exam.

**HPE350 EXERCISE PHYSIOLOGY 3 sem. hrs.**

The course will explore the physiological responses and phenomena which are elicited by exercise. Opportunity for use of scientific instrumentation and practical application of exercise physiology principles to teaching and coaching situations will be provided by regular laboratory experience.

**HPE355 COMMUNITY HEALTH EDUCATION 3 sem. hrs.**

This course provides students with an overview of community health education principles and practices. Areas of focus include the framework for community health, an assessment of current and projected leading causes of death, an analysis of health status of underserved and special populations, community health priorities, and environmental health issues.

**HPE360 ADAPTED PHYSICAL EDUCATION 3 sem. hrs.**

This course provides the knowledge and skills necessary to teach students with disabilities physical education in an inclusive environment. Assessment, planning, instructional techniques and specific sport adaptations for acquisition of psychomotor skills are emphasized. Field experiences working directly with special populations in physical education will be required. Prerequisite: **HPE215** and **SPED210** or permission of instructor.

**HPE364 HEALTH METHODOLOGY 3 sem. hrs.**

This course provides curriculum plans and strategies for effective health instruction. It presents and models principles of interactive instruction and classroom management through a variety of teaching experiences. Prerequisite: **HPE133**.

**HPE384 TECHNOLOGY INTEGRATION IN HEALTH AND PHYSICAL EDUCATION 3 sem. hrs.**

This course provides students with a practical understanding of computer software and hardware designed to enhance health and

physical education instruction. Computer technology integration into health and physical education curriculum will be emphasized and related to the National Education Technology Standards for Teachers.

**HPE400 CRITICAL ISSUES IN HEALTH 3 sem. hrs.**

This course provides a foundation for the planning, development, and evaluation of health programs. It also examines professional development, grantsmanship, and computer use within various health education settings.

**HPE402 LEGAL ASPECTS OF SPORT/RECREATION 3 sem. hrs.**

This course provides knowledge and awareness of the legal system governing sport and recreation. Specific topics covered include constitutional and statutory law, tort liabilities, contract law and sport applications, labor relations, and the role of law in sport and recreation. Issues of risk management, product liability, negligence, programming, and ethics will be applied to the sports/recreation industry.

**HPE405 HEALTH AND PHYSICAL EDUCATION FIELD EXPERIENCE 3 sem. hrs.**

This elementary school and secondary school field experience includes teaching/learning experiences in both academic areas under the teachers. It considers all aspects of school organization and administration with focus primarily on classroom planning toward effective teaching/learning. Students with credit in HPE425 may not take this course.

**HPE406 WORKSITE FIELD EXPERIENCE 3 sem. hrs.**

This course provides students with essential links between classroom information and pre-professional experience in the areas of health promotion, sport administration, and recreation administration. Students are introduced to organizational missions, public relations, program planning and implementation, event management, and other experiences related to these professions. Prerequisites: **HPE315**, **HPE311**.

**HPE410 FACILITY MANAGEMENT AND OPERATIONS 3 sem. hrs.**

This course focuses on the principles and practices of operating sport centers, athletic complexes, recreational and community centers, and fitness centers. It emphasizes need assessment and facility design, contract services, risk management, operational structures, security, media and public relations, and concessions and merchandise.



**HPE424 CONTEMPORARY ISSUES  
IN RECREATION****3 sem. hrs.**

This course touches upon current issues and trends that are evolving within the field of recreation. Included in this course are a review of employment opportunities, motivation, recreational facility construction craze, computer applications, and programmatic trends.

**HPE428 COACHING  
TECHNIQUES****3 sem. hrs.**

The course is designed for the potential athletic coach. The physical growth and development characteristics of the athlete will be studied, as well as those factors important to athletic productivity. These include philosophy, eligibility, conditioning, psychology and motivation, skill development, practice and game organization, and responsible team membership. Prerequisite: Two (2) seasons of high school athletic team membership, or; one (1) season of intercollegiate athletic team membership, or; certification as a high school official, or; permission of the instructor.

**HPE450 EXERCISE PHYSIOLOGY II****3 sem. hrs.**

This course provides advanced knowledge in the area of exercise physiology and its applications to fitness testing, exercise, and human performance. In addition to building advanced understanding of theory of exercise, emphasis is placed on development of proficiency in fitness testing and exercise prescription. Prerequisite: **HPE350**.

**HPE470 RESEARCH IN HUMAN  
PERFORMANCE****3 sem. hrs.**

This course provides a foundation to the scientific method, research methods, and data collection and analysis in Human Performance. Students will be introduced to the research process including: review of the literature, hypothesis testing, conducting a pilot study, and writing a research abstract. Research ethics, statistical computer applications, and health and physical education applications are also discussed. Prerequisite: **MATH260**.

**HPE490 INDEPENDENT STUDY  
HPE495 STUDENT TEACHING****6-12 sem. hrs.**

This course, providing experience in elementary, middle, and secondary schools, includes participation in teaching and other activities of the teacher. It emphasizes practical experience in aiding children to develop knowledge, skills, and appreciations regarded as essential to democratic society. Students may enroll in **HPE495** for six semester credit hours only under extenuating circumstances and with permission of the chairperson of the Health and Physical Education Department and the dean of the School of Education.

**HPE496 INTERNSHIP****6-12 sem. hrs.**

This course provides a structural, on-the-job supervised field experience in a sport management organization. Students apply concepts and skills learned in the classroom setting to real situations. The learning experiences are jointly supervised and evaluated by a professional staff member within the sport management organization and a faculty member within the Health and Physical Education Department. Prerequisite: Completed program requirements and approval of Health and Physical Education Department chairperson.

**JOUR200 JOURNALISM ETHICS****3 sem. hrs.**

This course probes ethical and legal issues that confront journalistic media and how these issues influence the way journalists perform their jobs. This course is approved for General Education – Core 6.

**JOUR214 JOURNALISM AND  
SOCIETY****3 sem. hrs.**

The purpose of this course is to consider how journalism and the general practice of media professionals reflect as well as influence society. The course will seek to develop awareness of the pervasive nature of journalism and media products in our society through a basic understanding of both psychological and sociological theories related to journalism. Students will explore how knowledge of our environment is determined by relatively few media practitioners; and how this raises important social, political, and moral questions. One important goal for this course is to help students sharpen skills that society tends to dull - the ability to question assumptions, evaluate evidence, analyze systems and structures of power, and generate knowledge that can lead to a more just and sustainable world. This course is approved for General Education - Core 4.

**JOUR216 BEGINNING REPORTING****3 sem. hrs.**

This course studies actual practice in gathering and writing news stories and features, from the simple to the complex. It emphasizes writing in-depth research, news evaluation, news sources, and journalistic law. This course is approved for General Education – Distribution 1.

**JOUR226 DIGITAL MEDIA DESIGN****3 sem. hrs.**

The course examines page layout and design issues and techniques relevant to the creation of newspapers, magazines, web sites and other publications. Students create online and print documents using such software as that for desktop publishing, web page creation, graphic creation, spread sheet, and word processing. This course is approved for General Education – Computer Competency.

**JOUR250 PHOTOJOURNALISM****3 sem. hrs.**

An introductory course in the theory and practice of photojournalism, using digital technology to complete a series of photojournalistic assignments.

**JOUR264 INTRODUCTION TO  
MASS MEDIA****3 sem. hrs.**

This course offers an entry level study of the American system of Mass Communications – what it is today and what brought it to this point. It surveys the historical development, organizational structure, functional and operational characteristics and contemporary setting of mass media. Students examine books, newspapers, magazines, motion pictures, records, radio, television, and new technologies. This course is approved for General Education – Distribution 1.

**JOUR298 BUSINESS AND  
PROFESSIONAL  
COMMUNICATION****3 sem. hrs.**

The goal of this course is to introduce students to the basics of business and professional communication in the US and in global companies. The course includes an introduction to research and interview skills, written and verbal professional communication, and collaboration in the workplace. This course is approved for General Education – Distribution 1.

**JOUR307 AUDIO PRODUCTION****3 sem. hrs.**

This course introduces students to audio production, which includes the principles of writing for audio, as well as the applications of creative choices, including equipment, to the audio production paradigm.

**JOUR309 INTRO TO TV  
PRODUCTION****3 sem. hrs.**

This course introduces students to elements of television production, including directing, on-air performance, studio camera operation, audio, lighting, teleprompter control, and switcher operation. In addition, students will become familiar with PC-based digital video editing on computer lab software meeting current industry standards.

**JOUR310 BROADCAST  
JOURNALISM****3 sem. hrs.**

This course introduces students to audio production, which includes the principles of writing for audio, as well as the applications of creative choices, including equipment, to the audio production paradigm.

**JOUR316 INTERMEDIATE REPORTING 3 sem. hrs.**

The course stresses reporting and writing skills in writing longer, more complex news articles employing interviewing, public records, surveys, and polls. Prerequisite: **JOUR216**.

**JOUR324 SPORTS WRITING 3 sem. hrs.**

This course introduces students to writing columns, sports features, advance stories, game stories and analysis stories. It stresses tone, news style, story organization, the lead, and objectivity. Prerequisite: **JOUR216**.

**JOUR330 NEWSPAPER PRACTICUM 3 sem. hrs.**

This course will provide students with an opportunity to gain hands-on experience working in a campus newspaper where they can learn and apply their skills. This experience will enhance students' skills and better prepare them upon graduation. Prerequisites: Sophomore standing and permission of the instructor.

**JOUR331 RADIO PRACTICUM 3 sem. hrs.**

This course will provide students with an opportunity to gain hands-on experience working in a campus radio station where they can learn and apply their skills. This experience will enhance students' skills and better prepare them upon graduation. Prerequisite: Sophomore standing and permission of instructor.

**JOUR332 TELEVISION PRACTICUM 3 sem. hrs.**

This course will provide students with an opportunity to gain hands-on experience working in a campus television station where they can learn and apply their skills. This experience will enhance students' skills and better prepare them upon graduation. Prerequisite: Sophomore standing and permission of instructor.

**JOUR350 PHOTOJOURNALISM II 3 sem. hrs.**

A seminar in the practice of photojournalism. Each student will be required to develop and to present a minimum of three projects during the semester, and each project must be a complete presentation with consideration given to photography, text, layout, and editing. Prerequisite: **JOUR250** or permission of the instructor.

**JOUR370 HISTORY OF PRINT JOURNALISM 3 sem. hrs.**

This course will examine the historic relationship between American society and journalism. It will trace the development of American journalism with an emphasis on the cultural, technological and economic background of press development.

**JOUR404 RADIO/TV ANNOUNCING 3 sem. hrs.**

This is an intensive course for the development of techniques of voice use desirable for radio, television, and sound reinforcement systems. The course will analyze and address the challenge of coordinating the speaking voice with the meaning, the syntax and implications of the textual material.

**JOUR405 BROADCAST SALES, MARKETING AND ADVERTISING 3 sem. hrs.**

The effectiveness of the advertising and marketing effort often underlies the programming possibilities of the broadcast media. This course will explore marketing, advertising and sales strategies. Attention will be placed on regulations, rules, copyright laws and other regulatory standards. Students will be expected to produce air-worthy ad copy and to devise an advertising strategy for a specific set of sponsor, audience, and budget parameters.

**JOUR406 COMMUNICATIONS LAW 3 sem. hrs.**

This course is designed to cover the entire spectrum of broadcast rules and regulations. The theme of regulatory continuity that ties radio growth and development to television and cable growth and regulation will be examined closely. The course is expected to develop an understanding of the "scarce" resource theory as it interacts with First Amendment rights and freedoms. The concept of a "public interest" defined by broadcast standards of equal time, fairness and access will be examined. Specific FCC rules and regulations will be examined as they apply to day-to-day broadcast operations. Prerequisites: **JOUR264**, or permission of Instructor.

**JOUR408 BROADCAST MEDIA MANAGEMENT 3 sem. hrs.**

This course introduces students to the problems of the organization and management of media companies with attention to the problems of the various departments within the organization such as programming, sales, engineering, traffic, and administration.

**JOUR417 ADVANCED DIGITAL MEDIA DESIGN 3 sem. hrs.**

This course examines the issues of audience, design theory, practical design applications and the implementation of digital media, relevant to the creation of multi-media journalistic packages. Students will use advanced web and graphic design software, in addition to standard word processing software, to create multi-media documents for online distribution. Prerequisite: **JOUR226** or permission of instructor.

**JOUR419 ADVANCED VIDEO PRODUCTION 3 sem. hrs.**

This course emphasizes advanced video production techniques for the television studio and field production environments. Students will become competent in the operation of digital video cameras, computerized editing, effects processing for audio and video, as well as advanced operation of the studio production equipment. Prerequisite: **JOUR 309**.

**JOUR420 FEATURE WRITING 3 sem. hrs.**

Practice in writing imaginative, interpretative, humorous, and personal experiences for newspaper and magazine articles. Prerequisite: **JOUR216**.

**JOUR421 JOURNALISM AND DEMOCRACY 3 sem. hrs.**

This course will knit together subject matter from journalism and other liberal arts study areas. It will pursue that goal by using the idea of democracy as a lens. We will use that lens (and others) to examine the goals and practices of journalism – primarily in the United States but also in some other regions of the world.

**JOUR423 THE EDITORIAL PAGE 3 sem. hrs.**

Examines the problems of content selection and presentation, with extensive writing of analytical, persuasive, and interpretative articles. Prerequisite: **JOUR216**.

**JOUR429 MAGAZINE WRITING 3 sem. hrs.**

This course emphasizes writing and marketing the magazine article. It stresses analysis of particular magazine markets. Prerequisite: **JOUR216** or permission of the instructor.

**JOUR439 TV NEWS AND DOCUMENTARY 3 sem. hrs.**

Students will practice documentary video journalism in a group production environment utilizing industry standard practices and equipment. Prerequisite: **JOUR419**.

**JOUR490 INDEPENDENT STUDY: JOURNALISM Variable Credit**

The Independent Study program aims to serve those students whose scholarly bent seems most clearly adapted to independent work. Students are permitted to earn credit for work performed outside the classroom requirement of any specific course in the curriculum. Permission of the chairperson is required.

**JOUR496 JOURNALISM AND MASS MEDIA INTERNSHIP**  
**3 sem. hrs.**

The internship experience provides advanced students with an on-the-job work/educational experience and enables them to apply conceptual knowledge and skills learned in the classroom to the work environment. Prerequisite: 60 or more completed credits.

**JOUR504 ADVANCED ELECTRONIC JOURNALISM**  
**3 sem. hrs.**

The course offers a detailed look at the television/video applications of broadcast news journalism. Areas of focus will include the daily process of producing a television newscast, the relationship between the assignment editor and the reporter, and practical elements of electronic news gathering. Prerequisite: **JOUR407**.

**- L -****LAS200 HERITAGE AND CULTURE OF PUERTO RICANS**  
**3 sem. hrs.**

This course studies the culture and history of Puerto Rico by exploring its paradoxical status as a territory of the United States, and as a distinct culture. The course will also focus on the internal battle between supporters and detractors of the independence movement on the island. Focus will also be given to the presence and influence of “mainland” Puerto Ricans and the role they play in the culture and history of the island.

**LAS204 US INTERVENTIONS IN LATIN AMERICA**  
**3 sem. hrs.**

This course examines the causes and results of US intervention in Latin America since 1820 from the perspective of the Americas. Using gender, race, ethnicity, and class as the historical and political backdrop, this course also analyzes the status of Latin America in the 19<sup>th</sup> and 20<sup>th</sup> centuries and its relationship to the United States. Fulfills General Education Core 3.

**LAS489 THE MAYA EXPERIENCE**  
**3 sem. hrs.**

This course studies the culture, language, and history of the Maya from pre-contact to the present, and includes an examination of political, social, and economic influences. Special attention will be given to the importance of language and literature in understanding the Maya presence in today’s world. This course is designed as a Study Abroad experience. Graduate students are required to demonstrate a deeper understanding of the complexities of the Maya Experience. Prerequisite: Junior standing or permission of instructor. General Education: D1 or 2.

**LAS491 GENDER, LANGUAGE AND CULTURAL IMAGES OF MEXICO**  
**3 sem. hrs.**

This course studies the culture and history of Mexico by examining issues related to gender, language and images. Using archaeological sites, monuments, and society at large, the course will also analyze the impact of tourism on Mexico’s cultural and economic identity. This course is designed as a Study Abroad experience. Prerequisite: Junior standing or permission of instructor.

**LAS495 INTERNSHIP IN LATIN AMERICAN STUDIES**  
**3-12 sem. hrs.**

This internship gives students the opportunity to apply, improve and develop skills through practical, on-the-job experience in business, research, government agencies or other professions related to Latin America. Time spent and the nature of the experience is usually under the direction of the employer and is used in determining the amount of credit earned. The student will also be responsible to the Edinboro University faculty internship advisor.

**LIBR106 INFORMATION ETHICS**  
**3 sem. hrs.**

The Information Age has drawn heightened attention to ethical concerns about the storage, access, and use of information. Using various ethical concepts and models as a context for understanding, this discussion-based course explores a wide array of information topics, trends, and issues from cyberbullying to censorship to identity theft and more. This course is approved for General Education, Core 6. Prerequisite: Specialized College Writing and Research Skills (can be taken as a co-requisite).

**- M -****MATH020 REMEDIAL ALGEBRA I**  
**3 sem. hrs.**

This course is intended for students who are not adequately prepared for university level mathematics. This course begins with the arithmetic of the real numbers and then emphasizes the following introductory ideas in algebra: variable expressions, solving linear equations and applications of linear equations. This course is graded satisfactory or unsatisfactory. (Course cannot be used to meet graduation requirements.)

**MATH 090 REMEDIAL ALGEBRA II**  
**1-3 sem. hrs.**

This course is intended for students who are not adequately prepared for university level mathematics. This course includes topics such as polynomial, rational and radical expressions with an emphasis on algebraic manipulations and the solving of equations. Also included is an introduction to functions

and relations. Prerequisite: **Math020** (Course does not satisfy mathematics skill requirement for general education or substitute for any other general education requirement.)

**MATH104 FINITE MATHEMATICS**  
**3 sem. hrs.**

This course provides study and experience in mathematical representations, processing, problem solving and thinking. Students analyze and solve problems in areas such as set theory, mathematics of finance, probability, and statistics. Note: Students may not receive credit for both Finite Mathematics and Mathematical Reasoning I. Prerequisite: **MATH90** or an acceptable placement score. This course is approved for General Education – Skills.

**MATH105 COLLEGE ALGEBRA**  
**3 sem. hrs.**

This course is intended for non-mathematics majors who have had the equivalent of two years of high school algebra. Topics include linear equations, complex numbers, functions and their graphs, linear and quadratic inequalities, absolute value inequalities, systems of equations, exponential and logarithmic functions. Prerequisite: MATH090 or MATH100 (Grade of C or better) or an acceptable placement score. This course is approved for General Education – Distribution 3.

**MATH106 TRIGONOMETRY**  
**3 sem. hrs.**

This course introduces the trigonometric and circular functions along with their relationships and applications. It includes graphing, identities, trigonometric equations, inverse trigonometric functions, and solution of triangles. Prerequisites: A “C or better” in **MATH105** or an acceptable placement score. This course is approved for General Education – Distribution 3.

**MATH107 PRECALCULUS**  
**4 sem. hrs.**

This course provides the background necessary for the successful study of analytic geometry and calculus. It emphasizes algebraic techniques for analyzing polynomial, rational, trigonometric, and exponential functions and their graphs. Applications of these types of functions and conic sections are explored. Prerequisites: an appropriate placement score. This course is approved for General Education – Distribution 3.

**MATH110 MATHEMATICAL REASONING I**  
**3 sem. hrs.**

This course develops mathematical topics drawn from the areas of problem solving, measurement, geometry, probability, and statistics. This course promotes the development of a deep understanding of the underlying concepts of these mathematical topics while maintaining an appropriate level of mathematical precision. This is the first course of a two-course sequence intended to

prepare students for the Praxis I examination. Note: Students may not receive credit for both Finite Mathematics and Mathematical Reasoning I. Prerequisite: MATH090 or **MATH100** (Grade of C or better) or an acceptable placement score. This course is approved for General Education – Skills.

**MATH150 APPLIED MATHEMATICS FOR BUSINESS 3 sem. hrs.**

This course is designed to provide the mathematical foundation needed by students majoring in a business discipline. Topics include functions, functional models (linear, quadratic, polynomial and rational), limits, and differentiation. Mathematical applications in business and economics are incorporated throughout the course. Prerequisite: MATH090 or **MATH100** (Grade of C or better) or an acceptable placement score.

**MATH208 ESSENTIALS OF CALCULUS 3 sem. hrs.**

This course introduces the fundamental concepts of differential and integral calculus, emphasizing applications from business, economics, and the social sciences through an intuitive approach. It may not be taken in lieu of MATH211. Prerequisite: **MATH105** or **MATH107** or an acceptable placement score. Must have earned a “C” or better in all prerequisite course(s). This course is approved for General Education -Distribution 3.

**MATH209 MATHEMATICS OF FINANCE 3 sem. hrs.**

This course introduces the mathematics of personal finance. It is intended to serve as a lifelong basis for wise money management. Topics include simple interest, compound interest, annuities (car payments, mortgage payments - any series of equal periodic payments), and investments (stocks and bonds). Prerequisite: **MATH090** or higher. Must have earned a “C” or better in all prerequisite course(s). This course is approved for General Education -Distribution 3.

**MATH210 MATHEMATICAL REASONING II 3 sem. hrs.**

In this course students study number systems, set theory, and an extension of the natural numbers. Algorithms for performing operations will be developed. Various numeration systems are examined as well as number theory. Simple equations and inequalities will be introduced. This course promotes the development of a deep understanding of the underlying concepts of these mathematical topics while maintaining an appropriate level of mathematical precision. This is the second course of a two-course sequence intended to prepare students for the Praxis I examination. Prerequisite: **MATH110** (Grade of C or better) This course is approved for General Education - Distribution 3.

**MATH211 ANALYTICAL GEOMETRY AND CALCULUS I 4 sem. hrs.**

This course introduces the student to the theory and applications of the concepts of limit, continuity, and integration. Emphasis is placed upon the study of polynomial, rational, and trigonometric functions. Prerequisite: **MATH 106 (Grade of C or better) or MATH 107 (Grade of C or better)**. This course is approved for General Education –Distribution 3.

**MATH212 ANALYTICAL GEOMETRY AND CALCULUS II 4 sem. hrs.**

This course continues MATH 211. Topics include differentiation and integration of transcendental functions, techniques of integration, polar coordinates, derivatives and area in polar coordinates, indeterminate forms, improper integrals, and infinite sequences and series. Prerequisite: **MATH 211** (Grade C or better). This course is approved for General Education –Distribution 3.

**MATH250 INFORMAL GEOMETRY 3 sem. hrs.**

In this course students explore the fundamental properties of geometry to gain a deeper understanding of the underlying principles involved as well as their applications. Topics include: points, lines, geometric shapes in two and three dimensions, measurement, similarity and congruence. Throughout the course appropriate proof techniques will be emphasized. This course is approved for General Education - Distribution 3. Prerequisite: **MATH105** or higher. Must have earned a “C” or better in all prerequisite course(s).

**MATH260 ELEMENTS OF STATISTICS 3 sem. hrs.**

This course, which is not intended for mathematics majors, introduces the basic concepts of statistics through intuitive approaches and stresses applications. Topics considered include descriptive measures, elementary probability, sampling, hypothesis testing, and estimation. Prerequisite: Any **MATH104** or higher, or an acceptable placement score. This course is approved for General Education – Distribution 3. Must have earned a “C” or better in all prerequisite course(s).

**MATH270 DISCRETE MATHEMATICS I 3 sem. hrs.**

This course introduces fundamental topics in mathematics. It emphasizes mathematical reasoning, proof writing and problem solving with a broad exposure to mathematical notation. Emphasis is placed on rigorous mathematical definitions and proof writing throughout the course. Topics include: formal logic, set theory, functions, elementary number theory and combinatorics. Prerequisite:

**MATH208** or **MATH211**. Must have earned a “C” or better in all prerequisite course(s). (This course is approved for General Education Distribution – Science and Mathematics.)

**MATH275 LINEAR ALGEBRA I 3 sem. hrs.**

This course introduces matrices, systems of linear equations, vector spaces, determinants, linear transformations, eigenvalues, and eigenvectors. An introduction to the theory of linear algebra and basic proof techniques, along with application and computational aspects, will be emphasized in this course. Prerequisite: **MATH208** (Grade of C or better) or **MATH211** (Grade of C or better). This course is approved for General Education - Distribution 3.

**MATH 290 FOUNDATIONS OF MATHEMATICAL PROOF 3 sem. hrs.**

This course is a rigorous approach to the study of the fundamental proof techniques in mathematics. It will introduce different methods for constructing proofs, including forwards/backwards proofs, contradiction, contrapositive, and induction. Students will utilize the techniques from this class to construct proofs in a variety of mathematical content areas. Prerequisite: **MATH 270** (Grade of C or better) and Math 211 (Grade of C or better).

**MATH300 APPLIED STATISTICAL METHODS/DATA ANALYSIS 3 sem. hrs.**

This course focuses on the use of descriptive statistics, probability, introductory statistical inference, and data analysis in an applied setting. Students will be required to use appropriate software packages and calculators with statistical functionality in the course. Prerequisites: **MATH 208** or **MATH 211**. Must have earned a “C” or better in all prerequisite course(s). Note: Students cannot earn credit for MATH 260 after taking MATH 300. MATH 300 is not an acceptable upper-level mathematics elective for Mathematics and Mathematics-Actuarial Science majors. This course is approved for General Education - Distribution 3.

**MATH311 ANALYTICAL GEOMETRY AND CALCULUS III 4 sem. hrs.**

This course in multivariable calculus continues MATH212. Topics include two and three dimensional vectors, solid analytic geometry, functions of several variables, and multiple integration, and an introduction to vector calculus leading to Green’s theorem, the divergence theorem, and Stokes’ theorem. Prerequisite: **MATH212**. (Grade of “C” or better). This course is approved for General Education - Science and Mathematics – Distribution 3.

**MATH317 INTRODUCTION TO DIFFERENTIAL EQUATIONS 3 sem. hrs.**

This course introduces the basic concepts, theory methods, and applications of differential equations. Topics include exact equations, linear equations, systems of linear equations, series solutions, and applications to geometry, physics, and related fields. Prerequisite: **MATH212**. Must have earned a “C” or better in all prerequisite course(s).

**MATH321 ABSTRACT AND COMPUTATIONAL NUMBER THEORY 3 sem. hrs.**

This course will cover various theorems, algorithms, applications, and open questions in number theory. This course is a blending of the theoretical and computational components of number theory. The core topics will include divisibility, primes, and congruences and will expand upon these concepts from Discrete Mathematics I. Prerequisite: **MATH270** (Grade of C or better).

**MATH350 MATHEMATICAL PROBABILITY AND STATISTICS 3 sem. hrs.**

In this course students study the basic concepts of mathematical probability emphasizing applications to solving practical problems in statistics. Topics considered include random variables, probability laws, expected value, probability mass functions, probability densities, sampling distributions, techniques of estimation, and an introduction to hypothesis testing. Prerequisite: **MATH212** and **MATH270**. Must have earned a “C” or better in all prerequisite course(s). This course is approved for General Education – Distribution 3.

**MATH353 COLLEGE GEOMETRY 3 sem. hrs.**

This is a course in elementary geometry from an advanced standpoint. The emphasis is on valid proofs of concepts and theorems already familiar to the student. Euclid’s parallel postulate is not assumed until late in the course, in order to develop an appreciation for absolute geometry and the historical controversy over the parallel postulate. Prerequisite: **MATH270**. Must have earned a “C” or better in all prerequisite course(s).

**MATH360 STATISTICAL INFERENCE 3 sem. hrs.**

This course emphasizes statistical inference and presents basic concepts through intuitive approaches. It stresses applications and includes sampling variance, nonparametric tests, multiple and partial correlation, analysis of variance, and experimental design. Prerequisite: **MATH260** or **MATH300** or **MATH350**. Must have earned a “C” or better in all prerequisite course(s).

**MATH370 DISCRETE MATHEMATICS II 3 sem. hrs.**

This course continues **MATH270**. Topics include: recurrence relations, relations, graph theory, and trees. Prerequisite: **MATH270**. Must have earned a “C” or better in all prerequisite course(s). This course is approved for General Education – Distribution 3.

**MATH372 HISTORICAL ROOTS OF MATHEMATICS 3 sem. hrs.**

This course covers the historical roots of elementary mathematics: arithmetic, algebra, geometry, and number systems. It discusses the origins of most of the topics included in the elementary and high school mathematics curricula. This course is particularly appropriate for the prospective teacher of mathematics. Prerequisite: **MATH270**. Must have earned a “C” or better in all prerequisite course(s).

**MATH380 INTRO TO ACTUARIAL SCIENCE 2 sem. hrs.**

This course introduces students to the career of actuarial science. Actuaries will be invited to give guest lectures on the work they do in their careers. This course will prepare students to take the first professional actuarial test. This test covers insurance applications that utilize calculus and probability. Students are graded on a satisfactory/unsatisfactory basis. Prerequisites: **MATH311** and **MATH350**. Must have earned a “C” or better in all prerequisite course(s).

**MATH403 MATHEMATICS FOR THE SECONDARY SCHOOL TEACHER 3 sem. hrs.**

This course correlates students’ mathematical backgrounds with the mathematical techniques needed to meet state and national standards for the twenty-first century. The approach emphasizes the changes in how mathematics is used and taught due to the impact of technology and societal change. Prerequisites: **MATH270**. (Grade of “C” or better)

**MATH404 COMPUTERS AND CALCULATORS IN THE SECONDARY MATHEMATICS CURRICULUM 3 sem. hrs.**

This course investigates the use of the calculator and the computer in teaching and learning secondary level mathematics. Students use several symbolic computer systems and various graphing calculators, and examine current recommendations and projects for incorporating these new technologies into the secondary curriculum. A graphics calculator is required for this course. Prerequisite: **MATH212** or **MATH270** (C or better).

**MATH411 INTRODUCTION TO ANALYSIS 3 sem. hrs.**

This course introduces the basic theory underlying the calculus of a function of a single variable. It develops a deeper appreciation and understanding of several important definitions and theorems in calculus, and emphasizes examples and appropriate proof techniques. Prerequisite: **MATH311** and **MATH270**. Must have earned a “C” or better in all prerequisite course(s).

**MATH415 COMPLEX ANALYSIS 3 sem. hrs.**

This course covers the basics of analysis over the complex numbers. It develops the analogues to differentiable and integrable functions from real analysis in the new setting with startlingly different results. The course emphasizes both computation and appropriate techniques of proof. Prerequisite: **MATH311** and **MATH270**. Must have earned a “C” or better in all prerequisite course(s).

**MATH417 INTRODUCTION TO PARTIAL DIFFERENTIAL EQUATIONS 3 sem. hrs.**

This course serves as an introduction to the theory of partial differential equations. It discusses solution methods for the more common partial differential equations encountered in physics and engineering. This course is particularly appropriate for students wishing to strengthen their background in applied mathematics. Prerequisites: **MATH311** and **MATH317** (Grades of C or better in both).

**MATH421 ABSTRACT ALGEBRA 3 sem. hrs.**

This course will provide the student with an introduction to the topics of abstract algebra, including groups, rings, and fields. In addition, this course will further develop the student’s problem-solving skills and ability to follow and to construct a rigorous mathematical proof. Prerequisite: **MATH270** (Grade C or better) and **MATH275** (Grade C or better).

**MATH430 APPLIED NUMERICAL METHODS I 3 sem. hrs.**

This course covers numerical methods in polynomial interpolation, root finding, numerical integration, and numerical linear algebra. Prerequisites: **MATH212** (Grade of C or better). Co-requisite: **MATH275**

**MATH431 APPLIED NUMERICAL METHODS II 3 sem. hrs.**

This course covers numerical methods in the solution of ordinary and partial differential equations, numerical differentiation, Runge-Kutta methods, iterative methods for ODEs, and finite differences for PDEs. Prerequisites: **MATH430** (Grade of C or better).

**MATH453 TOPOLOGY 3 sem. hrs.**

This course is an introduction to point-set topology. Topics to be included are topological spaces, continuous functions, open sets, closed sets, compact sets, and connectivity. Various applications of these topics will be explored. Prerequisites: MATH 311 (Grade of C or better) and MATH 270 (Grade of C or better).

**MATH465 SURVEY OF MATHEMATICAL MODELING 3 sem. hrs.**

This course serves as an introduction to the formulation, analysis, and interpretation of mathematical models in the natural sciences, the social sciences, industry, and medicine. Students will gain familiarity with problem-solving techniques employed throughout applied mathematics, as well as gain an appreciation for the role mathematics plays in a wide variety of disciplines. Prerequisites: MATH311, MATH270, MATH275, and MATH350. Must have earned a "C" or better in all prerequisite course(s).

**MATH475 LINEAR ALGEBRA II 3 sem. hrs.**

This course gives a rigorous development of the basic theory of linear algebra by building upon the concepts introduced in Linear Algebra I. Topics include inner product spaces, orthogonality, linear transformations, eigenvalues, and decomposition of matrices. Various applications of these topics will be explored. Prerequisites: MATH211, MATH270, and MATH275. Must have earned a "C" or better in all prerequisite course(s).

**MATH480 MATHEMATICS SEMINAR 1 sem. hrs.**

This course is designed as a senior capstone experience with the intent of encouraging several aspects of independent research in mathematics: selection of problems either by the instructor or by the student with the instructor's approval, discussion, and presentation. Prerequisite: MATH 311 (Grade of C or better) **and at least one of the following** (Grade of C or better): MATH 350, MATH 353, MATH 411, MATH 421

**MATH490 INDEPENDENT STUDY 2-6 sem. hrs.**

This experience is designed to meet the needs of students who wish to prepare individual studies or projects in the field of mathematics under the direction of a member of the faculty of the Department of Mathematics and Computer Science. It is the student's responsibility to complete the required forms and to submit them for approval.

**MATH496 INTERNSHIP IN MATHEMATICS 3-12 sem. hrs.**

The internship in mathematics is intended to give the student an opportunity for on the job experience in theoretical or applied mathematics and/or other related fields. The internship shall incorporate meaningful productive experience usually during the senior year. The internship may be of a training or job sampling nature. Time spent and the nature of the experience is usually under the control of the local agency and is used in the determination of the amount of credit obtained. In addition to the hours spent on the job, the student shall also be responsible to his/her faculty internship advisor. This course may not be used as a mathematics elective.

**MATH497 SPECIAL TOPICS IN MATHEMATICS 3 sem. hrs.**

This course will focus on a specific topic in Mathematics suitable for advanced students. The content will vary from semester to semester according to interests of the students and faculty. Students may repeat this course up to three times for different topics. Prerequisites: junior standing and permission of the instructor.

**MEDT402 CLINICAL CHEMISTRY 8 sem. hrs.**

Lectures and laboratory practicum in the various chemical procedures performed in the clinical laboratory. Each test includes the physiology of the chemical substance, collection and preservation of the specimen, principle of the procedure, standardization, advantage and disadvantage of various methods, sources of error, normal values and clinical interpretations. Included are mathematics and statistics and instrumentation. Open only to students enrolled in a hospital-based Medical Technology program accredited by a nationally recognized post-secondary accrediting agency.

**MEDT405 BACTERIOLOGY 6 sem. hrs.**

Lectures and laboratory practicum on bacterial morphology and physiology, staining and culture methods, preparation and use of media, handling of specimens, darkfield microscopy, identification of organisms, sensitivity and susceptibility testing. Open only to students enrolled in a hospital-based Medical Technology program accredited by a nationally recognized post-secondary accrediting agency.

**MEDT406 BLOOD BANKING 3 sem. hrs.**

Lectures and laboratory practicum on antigen-antibody reactions. ABO,Rh and other systems, antiglobulin tests, auto-immune antibodies, crossmatching, transfusion reactions, processing donor blood, and paternity exclusion testing. Open only to students enrolled in a hospital-based Medical Technology program accredited by a nationally recognized post-secondary accrediting agency.

**MEDT407 HEMATOLOGY AND COAGULATION 5 sem. hrs.**

Lecture and laboratory practicum on enumeration of formed elements in the blood, hemoglobinometry, cell morphology, anemias and polycythemia, lymphomas, coagulation tests and clinical interpretation of abnormal results.

**MEDT409 PARASITOLOGY AND VIROLOGY 2 sem. hrs.**

Lecture and laboratory practicum on the sources, classification and nomenclature and identification of parasites and viruses of medical importance. Life cycles of selected protozoa and heiminths are studied. Methods of collecting, preserving and packing specimens for shipment to other laboratories are included. Open only to students enrolled in a hospital-based Medical Technology program accredited by a nationally recognized post-secondary accrediting agency.

**MEDT411 SEROLOGY AND IMMUNOLOGY 4 sem. hrs.**

Lecture and laboratory practicum for tests of syphilis and other diseases detectable by serologic methods. Included are fluorescent antibody testing, complement fixation and bacterial agglutination tests. Open only to students enrolled in a hospital-based Medical Technology program accredited by a nationally recognized post-secondary accrediting agency.

**MEDT412 CLINICAL MICROSCOPY 2 sem. hrs.**

Lecture and laboratory practicum on the examination of urine and other body fluids, such as spinal fluid and gastric fluid. Emphasis is placed on the detection of abnormalities and the disease in which these abnormalities occur. Other examinations include the examination of semen for fertility and the examination of urine for pregnancy.

**MEDT422 MYCOLOGY 2 sem. hrs.**

Lecture and laboratory practicum of fungi of medical importance. Included are classification and nomenclature, methods of culture and identification and the clinical aspects of mycologic diseases. Open only to students enrolled in a hospital-based Medical Technology program accredited by a nationally recognized post-secondary accrediting agency.

**MFGT100 MANUFACTURING PROCESSES 4 sem. hrs.**

This course develops a working knowledge of the capabilities and limitations of basic machining operations. Students will learn the theory of metal-working. Skills are developed and safe practices learned through laboratory work. Laboratory projects are of increasing difficulty as the students' skills develop. The course consists of 2 hours of lecture and 3 hours of laboratory.

**MFGT105 ENGINEERING MATERIALS 3 sem. hrs.**

This course develops a working knowledge of the materials used in industry, their properties, and the factors involved in selection for specific applications. It emphasizes those materials most often encountered in designing and using industrial tooling and equipment.

**MFGT110 TECHNICAL DRAWING I 3 sem. hrs.**

This course develops the fundamental skills necessary to create and interpret Basic Engineering Drawings. It includes Geometric Construction, Lettering, Multiview Projection, Sectioning, Auxiliary Views, Dimensioning, Tolerancing, Fasteners, and Working Drawings. 3 hours lecture, 3 hours lab.

**MFGT111 TECHNICAL DRAWING II 3 sem. hrs.**

This course continues Technical Drawing I, emphasizing the following topics: Axonometric and Oblique Projection, Perspective, Intersections and Developments, Gears and Cams, Structural and Piping Drawing, Welding, Graphs, and some Basic Descriptive Geometry. 3 hours lecture, 3 hours lab.

**MFGT201 INTRODUCTION TO QUALITY CONTROL 3 sem. hrs.**

Basic statistical quality control principles are presented, with tools available for planning, evaluation, reporting, and control of quality in manufacturing, with emphasis on quality and performance improvement in order to reduce costs of manufacturing. The course presents basic statistical and probability concepts, distributions, terminology, sampling plans, statistical process, control charts, and their use. To enroll, students must have skill in algebra or permission of the instructor.

**MFGT215 MACHINE DESIGN 3 sem. hrs.**

This course develops a basic knowledge of the principles involved in the layout and design of industrial machinery with particular emphasis on the selection, sizing, and design of machine components. The course consists of lectures and class exercises in component selection and sizing. To enroll students must have skill in algebra or permission of the instructor.

**MFGT225 STATICS AND STRENGTHS OF MATERIALS 3 sem. hrs.**

This course introduces statics and strengths of materials concepts and develops computational skills. To enroll, students must have skill in algebra and trigonometry or permission of the instructor.

**MFGT260 JIGS AND FIXTURE DESIGN 3 sem. hrs.**

This course builds a basic knowledge of gauging and workholding devices used in metalworking manufacturing. Projects include designing several complete tools in order to develop beginning competency.

**MFGT296 INTERNSHIP IN MANUFACTURING ENGINEERING TECHNOLOGY 3-12 sem. hrs.**

This internship gives students experience in the manufacturing environment. The nature of the experience and the time spent determine the amount of credit earned.

**MFGT302 COMPUTER AIDED DRAFTING I 3 sem. hrs.**

This course introduces the student to the various CAD Systems used in industry and develops operational skills on micro-computer based CAD software. It covers methods of geometric construction, dimensioning, layering, storage, plotting, revision and related topics. Prerequisite: **ENGR201**. 3 hours lecture, 3 hours lab.

**MFGT306 STRENGTH OF MATERIALS LABORATORY 3 sem. hrs.**

This course will introduce the student to the principles of strength, stiffness, and stability of materials as they relate to the design of components used in daily life. Course topics include design properties, axial deformation, thermal stresses, torsional shear stresses, torsional deformation, and shearing forces in materials. (1 hour lecture, 3 hours lab) Prerequisite: **MFGT105**.

**MFGT309 MOLD DESIGN I 3 sem. hrs.**

This course develops a basic understanding of molds for compression and transfer molding of thermosetting plastics and for injection molding of thermoplastics. Projects include the design of several complete molds in order to build a beginning level competency. Prerequisite: **ENGR201** or permission of instructor.

**MFGT310 ADVANCED MOLD DESIGN 3 sem. hrs.**

This course continues **MFGT309** Mold Design I, building on the concepts learned therein and developing more marketable skills. It emphasizes materials selection, tolerancing for proper fits, and designing of more complex mold details such as stripper plates, core slides, and actuating devices. Projects include designing several injection molds of increasing complexity. Prerequisite: **MFGT309**.

**MFGT311 RAPID PROTOTYPING 3 sem. hrs.**

This course will introduce the student to rapid prototyping manufacturing techniques. Course topics include parametric part modeling, reverse engineering concepts, prototyping design restrictions, stereolithography rapid prototyping, and 3D printing processes. (1 hour lecture, 3 hours lab) Prerequisites: **MFGT105, ENGR201, MFGT302**.

**MFGT315 OPERATIONAL PLANNING IN MANUFACTURING 3 sem. hrs.**

This course introduces the student to manufacturing operation styles and the environments and constraints which affect operations. Course topics include system development cycles, shop planning fundamentals, job cost estimating and budgeting, risk management, evaluation, reporting, and termination in manufacturing projects. Prerequisite: **CSCI104** or higher.

**MFGT320 COST ESTIMATING 3 sem. hrs.**

This course develops an understanding of the factors which contribute to manufacturing cost in modern industry and builds practical ability to estimate material requirements and time required for manufacturing operations, in order to determine product pricing. Requires high school algebra or permission of the instructor.

**MFGT365 DIE DESIGN 3 sem. hrs.**

This course introduces punch press dies for manufacturing of parts from sheet metal in the form of strip or coil. The students learn how dies function, the types of parts which may be manufactured using dies, how to calculate press tonnage and stripping forces, and how to choose and size components. Design projects reinforce the learnings. Prerequisite: **MFGT110**.

**MFGT370 MOTION AND TIME STUDY 3 sem. hrs.**

This course gives an overview of the methods and tools used in Motion Study, which involves the design and improvement of manufacturing methods, and those used in Time Study, which concerns measuring of human effort in terms of manufacturing time. Extensive classroom exercises reinforce concepts and develop skills.

**MFGT375 COMPUTER AIDED  
MANUFACTURING (CAM)****3 sem. hrs.**

This course introduces the fundamental concepts of programming and operating digitally controlled machine tools. It includes 2 hours lecture and 3 hours lab per week. Prerequisite: **MFGT100** or permission of the instructor.

**MFGT404 SYSTEMS CONTROL****3 sem. hrs.**

This course focuses on the various techniques used to control electronic techniques of signal acquisition and control. Subjects treated include transducers, signal conditioning, control principles, and control loop characteristics. The course includes a laboratory. Contact hours per week; 2 hours lecture, 2 hours lab. Prerequisite: a course in electronics and **MATH 107** (or equivalent), or permission of the instructor.

**MFGT405 INTRODUCTION TO****ROBOTICS 3 sem. hrs.**

This course introduces students to basic robotics concepts and to the uses of robots as functioning appliances. This course meets 4 hours per week and includes a 2 hour laboratory.

**MFGT410 FLUID POWER 3 sem. hrs.**

This course develops a knowledge of hydraulics and pneumatics as used for power and control of industrial equipment. The student, after completion of the course, will be able to design control circuits, troubleshoot, and to size and select components for a wide range of applications.

**MFGT420 MATERIAL HANDLING  
AND FACILITY****PLANNING 3 sem. hrs.**

This course will introduce the student to integrated material handling systems and systematic approach to facilities planning. Course topics include automatic identification, common material handling equipment used in manufacturing, and simulation of material flows. Prerequisites: **MFGT102, MFGT105, CSCI104** or higher.

**MFGT435 HEAT TRANSFER/  
APPLIED  
THERMODYNAMICS****3 sem. hrs.**

The course consists of a comprehensive treatment of classical heat transfer and thermodynamics for engineering technologists. Topics include the applications of equations of state, the first and second laws of thermodynamics, engine and refrigeration cycles, and the modes of heat transfer. Prerequisites: **MATH211, PHYS201** and **CHEM120**.

**MFGT490 INDEPENDENT STUDY:  
MANUFACTURING  
ENGINEERING  
TECHNOLOGY****1-6 sem. hrs.**

Students solve problems and earn credit for work performed independently outside the classroom requirement of any specific course in the curriculum. Prerequisite: permission of the instructor.

**MGMT260 FUNDAMENTALS OF  
MANAGEMENT AND  
MARKETING 3 sem. hrs.**

This course introduces students to the fundamental concepts and practices of management and marketing. It discusses theories, models and techniques used in directing an organization, improving its performance and creating the ability to achieve sustainable competitive advantage. The course will also present and discuss current challenges and opportunities within the functions of management and marketing. This course is not a substitute for **MGMT300** or **MKTG300** and may not be taken by students who already have taken either **MGMT300** or **MKTG300**. Prerequisites: **BUAD160, ECON220**.

**MGMT300 PRINCIPLES OF  
MANAGEMENT 3 sem. hrs.**

This course exposes students to the managerial functions that are fundamental to the successful operation of an organization. It discusses models and techniques used in directing an organization and improving its performance along with current challenges and opportunities. A team business simulation will be used to integrate and apply these concepts. Prerequisites: Enrollment in a BSBA concentration, **ACCT220, ECON220, and CSCI104**.

**MGMT310 COMPARATIVE  
MANAGEMENT 3 sem. hrs.**

This course makes students aware of the complexity of operating multi-national firms in various cultures and nations. It analyzes the management functions, processes, and structures and the factors related to the cultural, social, economic, political, and physical dimensions of environments. Prerequisite: **Enrollment in a BSBA concentration, and MGMT300**.

**MGMT320 SUPPLY MANAGEMENT  
3 sem. hrs.**

Supply management functions are an integral and essential part of every business. This course covers these functions as they impact managerial decisions and profitability. Supplier selection and evaluation as well as establishing and maintaining relationships with suppliers also are covered. Both the theory of

supply management and its applications will be demonstrated through lectures, exercises and case study methodology. Prerequisite: **Enrollment in a BSBA concentration, and MGMT300**.

**MGMT330 COLLECTIVE  
BARGAINING****3 sem. hrs.**

This course introduces collective bargaining in the private and public sectors. Topics include the evolution of collective bargaining, the legal basis of bargaining, gaining recognition, contract negotiation and contract administration. It is appropriate for upper level undergraduates and industrial relations professionals including unionists, managers, and neutrals. Students who have completed **EC331** may not register for this course. Prerequisites: **Enrollment in a BSBA concentration, and ECON220 and MGMT300**.

**MGMT350 PRODUCTION  
OPERATIONS  
MANAGEMENT****3 sem. hrs.**

This course teaches students the fundamental concepts and practices of electronic marketing, and explores appropriate marketing strategies and tactics for doing business in a computer-mediated environment. Students learn the potential as well as the limitations of the Internet as a commercial medium, as a channel of distribution and as a market. Both consumer (B2C) and business (B2B) electronic marketing are discussed. Current electronic marketing challenges and trends are considered. Prerequisite: **Enrollment in a BSBA concentration, and ACCT220, ECON220 and MKTG300** or permission of instructor.

**MGMT355 HUMAN RESOURCE  
MANAGEMENT 3 sem. hrs.**

Human Resource Management is a staff function which is responsible for personnel planning, recruitment, selection, staffing, controlling and rewarding of employees. This course is concerned with the personnel function as it affects individuals and the organization. Both the theory of human resource management and its application in business will be shown through lectures, exercises and the case study method. Prerequisite: **Enrollment in a BSBA concentration, and MGMT300**.

**MGMT370 INTRODUCTION TO  
MANAGEMENT SYSTEMS  
3 sem. hrs.**

Viewing enterprises as systems, this course introduces future managers to the origins of systems thinking and major systems concepts and applications. Prerequisite: **Enrollment in a BSBA concentration, and MGMT300**.



**MILS101 INTRODUCTION TO ROTC 1 sem. hrs.**

This course increases students' self-confidence through team study and activities in basic drill, physical fitness, rappelling, first aid training, oral presentations, and basic marksmanship. It teaches fundamental concepts of leadership in both classroom and outdoor laboratory environments. Both a leadership lab and physical fitness sessions are available, and an optional weekend exercise offers invaluable experience to volunteer participants. (Fall Semester)

**MILS102 INTRODUCTION TO LEADERSHIP 1 sem. hrs.**

This course teaches principles of effective leadership. Students increase in self-confidence by participating in physically and mentally challenging exercises with upper division ROTC students. The course helps students develop communication skills to improve performance and it relates organizational ethical values to leadership effectiveness. Both leadership lab and physical fitness sessions are available, and an optional weekend exercise offers invaluable experience to volunteer participants. Prerequisite: **MILS101**. (Spring Semester)

**MILS201 SELF/ TEAM DEVELOPMENT 2 sem. hrs.**

This course presents ethic-based leadership skills that develop students' individual abilities and contribute to building effective teams. Students develop skills in oral and written presentation, in planning events and in coordinating group efforts, in advanced first aid, and in land navigation and basic military tactics. The course includes the fundamentals of ROTC's Leadership Assessment Program. Both leadership lab and physical fitness sessions are available, and an optional weekend exercise offers invaluable experience to volunteer participants. Prerequisite: **MILS102**. (Fall Semester)

**MILS202 INDIVIDUAL/TEAM MIL TACTICS 2 sem. hrs.**

This course introduces individual and team aspects of military tactics in small unit operations. It includes the use of radio communications, safety assessments, movement techniques, team safety/security precautions, and methods of pre-execution checks. Students do practical exercises with upper division ROTC students and learn techniques for training others as an aspect of continued leadership development. Students must also participate in leadership lab, physical fitness sessions, and a weekend exercise. Prerequisite: **MILS201**. (Spring Semester)

**MILS301 LEADING SMALL ORGANIZATIONS 3 sem. hrs.**

This course offers students a series of practical opportunities to lead small groups, receive assessments and lead again in situations of increasing complexity. Students use small unit defensive tactics and opportunities to plan and conduct training for lower division students. The course requires students to participate in leadership lab and three weekly one-hour physical fitness sessions as well as one weekend exercise. Additional weekend exercises are optional. Prerequisite: **MILS202** or Basic Training Equivalent. (Fall Semester)

**MILS302 LEADING SMALL ORGANIZATIONS II 3 sem. hrs.**

This course continues MILS301 by providing task analysis, written and oral guidance for team members to accomplish tasks, and instruction in delegating and supervising. It includes planning for and adapting to the unexpected, examining and applying lessons from leadership case studies, and examining the importance of ethical decision making in enhancing team performance. The course also requires students to participate in leadership lab and three weekly one-hour physical fitness sessions as well as one weekend exercise. Additional weekend exercises are optional. Prerequisite: **MILS301**. (Spring Semester)

**MILS401 LEADERSHIP CHALL/ GOAL SETTING 3 sem. hrs.**

In this course, students plan, conduct, and evaluate activities of the ROTC cadet organization. They learn to articulate goals and enact plans to attain them, assess organization cohesion and develop strategies to improve it. The course also requires students to participate in leadership lab and three weekly one-hour physical fitness sessions as well as one weekend exercise. Additional weekend exercises are optional. Prerequisite: **MILS302**. (Fall Semester)

**MILS402 TRANSITION TO LIEUTENANT 3 sem. hrs.**

This course continues MILS401. It requires students to identify and resolve ethical dilemmas, to refine counseling and motivation techniques, and to examine aspects of tradition and law as they relate to leading as an officer in the United States Army. The course prepares students to be successful Army lieutenants. It also requires students to participate in leadership lab and three weekly one-hour physical fitness sessions as well as one weekend exercise. Additional weekend exercises are optional. Prerequisite: **MILS401**. (Spring Semester)

**MKTG300 PRINCIPLES OF MARKETING 3 sem. hrs.**

This course teaches students the fundamental concepts and practices of marketing, and the factors that influence marketing decisions.

Students learn to select target markets and develop the marketing mix (product, price, promotion and distribution) to achieve sustainable competitive advantage and meet the organization's objections. The on-going ethical issues and global challenges/opportunities facing marketers are also discussed. Topics will include development of marketing objectives and strategies, market targeting, pricing objectives and constraints, integrated marketing communication plans, and the supply chain management. Emphasis will be placed on the use of the "marketing concept" and its role in the flow of goods and services from producer to consumer. Prerequisites: Enrollment in a BSBA concentration, **ACCT220**, **CSCI104** and **ECON220**.

**MKTG310 INTERNATIONAL MARKETING 3 sem. hrs.**

This course acquaints students with international marketing. Three levels of competency form the goals of this course: first, an understanding of the critical nature of the economic, cultural, and political/legal backgrounds associated with international marketing; second, analytical skills in international market opportunity analysis; and third, competence relating to developing international market entry and maintenance strategies. Prerequisite: **Enrollment in a BSBA concentration**, and **ACCT220**, **ECON220** and **MKTG300**.

**MKTG320 ADVERTISING AND PROMOTION 3 sem. hrs.**

This course explores the elements of the advertising and promotion mix and stresses the dependency of advertising and promotion management on a thorough understanding of marketing strategy. The course prepares students to plan and manage advertising and promotion campaigns in consumer and industrial marketing, and highlights ethical issues that can arise in advertising and promotion decision-making. Prerequisite: **Enrollment in a BSBA concentration**, and **MKTG300**, **ACT220**, **ECON220**.

**MKTG340 CONSUMER BEHAVIOR 3 sem. hrs.**

This course focuses on two main approaches to the study of consumer behavior: a "micro" orientation, which focuses on the individual psychological processes that consumers use to make acquisition, consumption, and disposition decisions, and a "macro" orientation, which focuses on group behaviors and the symbolic nature of consumer behavior. The relevance of consumer behavior is also explored as it pertains to many constituents, including marketers, public policy makers, ethicists and consumer advocacy groups, and consumers themselves. Prerequisites: **Enrollment in a BSBA concentration**, and **ACCT220**, **ECON220** and **MKTG300**.

**MKTG350 ELECTRONIC  
MARKETING 3 sem. hrs.**

This course teaches students the fundamental concepts and practices of electronic marketing, and explores appropriate marketing strategies and tactics for doing business in a computer-mediated environment. Students learn the potential as well as the limitations of the Internet as a commercial medium, as a channel of distribution and as a market. Both consumer (B2C) and business (B2B) electronic marketing are discussed. Current electronic marketing challenges and trends are considered. Prerequisite: **Enrollment in a BSBA concentration**, and **ACCT220, ECON220, MKTG300** or permission of instructor.

**MKTG360 CHANNELS OF  
DISTRIBUTION 3 sem. hrs.**

This course teaches students how firms manage the flow of products from the point of production to the point of consumption. It emphasizes an understanding of the relations among channel members and the role of the channel in the marketing strategy for both consumer and industrial markets. Prerequisite: **Enrollment in a BSBA concentration**, and **ACT220, ECON220, MKTG300**.

**MKTG370 BUSINESS MARKETING  
3 sem. hrs.**

This course teaches students the distinct nature of the marketing task when the customer is an organization. It emphasizes characteristics and dynamics of commercial, government and institutional markets. Students explore marketing strategies and techniques for these markets and understand the challenges and opportunities facing business-to-business marketers. Prerequisite: **Enrollment in a BSBA concentration**, and **ACCT220, ECON220, MKTG300**.

**MKTG380 NEW PRODUCT  
PLANNING AND  
DEVELOPMENT 3 sem. hrs.**

This course presents a framework for developing new products and techniques for planning, implementing and evaluating new product introductions. Topics include product concept generation and evaluation, analysis of market potential, marketing strategy development, product use and market testing procedure, commercialization, and post-launch performance evaluation. It presents goods and services for both consumer and industrial markets. Prerequisite: **Enrollment in a BSBA concentration**, and **ACCT220, ECON220, MKTG300**.

**MKTG390 PROFESSIONAL SELLING  
3 sem. hrs.**

This course provides students with the skills necessary to initiate, build and maintain the customer relationship through personal sales. It covers the prospect, sales presentations and

proposals, handling objections, negotiations, closing the sale, and post-sale account management. Legal and ethical issues, and territory management techniques also are covered. Prerequisite: **Enrollment in a BSBA concentration**, and **ACCT220, ECON220, MKTG300**.

**MKTG410 MARKETING RESEARCH  
3 sem. hrs.**

This course presents a framework for generating, analyzing, interpreting and reporting information for use in making marketing decisions. Exploratory, descriptive and causal research techniques using both primary and secondary data sources are studied. Proper evaluation, management and use of information are stressed. Prerequisites: **Enrollment in a BSBA concentration**, and **ACCT220, ECON220, MKTG320** and **QUAN340**.

**MKTG475 MARKETING ANALYSIS  
AND PLANNING 3 sem. hrs.**

This course provides students with the skills necessary to analyze market conditions and to formulate strategies and plans for addressing market opportunities. It covers analysis of the firm's marketing performance, market demand and competition, and market opportunities in domestic and international markets, as well as the development and implementation of the firm's marketing plan. Prerequisites: **Enrollment in a BSBA concentration**, and **ACCT220, ECON225, ECON220, MGMT300, FIN300, QUAN340**, and two upper-level (310 or higher) MKTG.

**MKTG490 INDEPENDENT STUDY IN  
MARKETING Variable Credit**

This course meets the needs of students who wish to earn academic credit by investigating topics or completing projects which are not normally included in specific marketing courses. Students work under the direction of a member of the marketing faculty. Application approval is required. Prerequisite: **Enrollment in a BSBA concentration**.

**MKTG495 INTERNSHIP IN  
MARKETING 3-15 sem. hrs.**

The marketing internship provides students with an on-the-job learning experience in the marketing function of a commercial firm, government agency, or institution. Interns have an opportunity to apply classroom learning in a practical work environment. Marketing interns must have earned 60 credits, with at least 15 of those credits taken at Edinboro University, and including a minimum of 9 credits in the marketing requirements section (section III) of the business administration – marketing curriculum requirements. A minimum 2.6 grade point average in his/her major and a 2.4 grade point average overall is required. Application

approval will be in accordance with University policy. Prerequisite: **Enrollment in a BSBA concentration**.

**MLED306 LITERACY AND THE  
YOUNG ADOLESCENT 4 sem. hrs.**

This course provides candidates with the opportunity to teach young adolescents to become proficient readers and writers; recognize the diverse reading needs of their students across the curriculum; use assessment tools to inform instruction; provide reading instruction that is developmentally and individually appropriate; and recognize the requirement for providing a wide variety of print and non-print resources in their teaching. This course will fulfill the Stage 2 Field requirement. Prerequisite: Candidacy.

**MLED350 CHARACTERISTICS OF  
MIDDLE LEVEL  
LEARNERS 3 sem. hrs.**

Early adolescence is a distinct period of human growth and development. Young adolescents experience rapid and significant developmental changes. This course examines those unique developmental characteristics including physical, intellectual, emotional/psychological, moral/ethical, and social domains and implications for teaching. This course fulfills Stage 2 Field Experience. Prerequisite: **PSYC101** or permission of instructor.

**MLED360 DEVELOPMENTALLY  
APPROPRIATE MIDDLE  
LEVEL FEATURES AND  
PRACTICES 3 sem. hrs.**

The middle school philosophy addresses the unique developmental needs of young adolescents. There are specific elements associated with successful teaching of the age group including for example: interdisciplinary teaching, teaming and planning, advisor/advisee, differentiated instruction, learning communities, appropriate extracurricular activities, community involvement, and others. This course introduces all of these elements to the teacher candidate. This course includes a Stage 2 Field Experience. Prerequisite: **SEDU 271** or permission of instructor.

**MLED381 ASSESSMENT OF  
LEARNING FOR THE  
YOUNG ADOLESCENT 3 sem. hrs.**

This course investigates the importance of active and student-centered assessment strategies in middle level classrooms. It prepares middle level educators to craft, critique, and administer appropriate assessments, and communicate assessment results for the diverse middle level population. It stresses the relationship of curriculum, assessment, and instruction. This course is part of the professional block and includes Stage 3 Field Experience. Prerequisite: Candidacy.

**MLED466 INTERGRATED ENGLISH, LANGUAGE ARTS, AND SOCIAL STUDIES FOR THE MIDDLE LEVEL LEARNER 3 sem. hrs.**

This course prepares prospective teachers to make informed decisions regarding theories and models of language arts and social studies instruction. It addresses instruction, planning, application of standards, classroom management, assessment, motivational strategies, and techniques for teaching diverse populations. This course is part of professional block and includes Stage 3 Field Experience. Prerequisite: candidacy.

**MLED467 INTEGRATED MATHEMATICS AND SCIENCE FOR THE MIDDLE LEVEL LEARNER 3 sem. hrs.**

This course utilizes national and state standards; hands-on inquiry investigations; and problem solving activities. Students will use content and assessments when developing and implementing science and mathematics instruction for diverse learners. Theories, content, instruction, and resources for middle level math and science classrooms will be examined. This course is part of Professional Block and includes Stage 3 Field Experience. Prerequisite: candidacy.

**MLED475 MIDDLE LEVEL FIELD 3 sem. hrs.**

Teacher candidates will practice teaching skills in a middle level classroom, be provided a variety of experiences, and be supervised by university faculty and a certified cooperating teacher. Teacher candidates will teach integrated lessons developed in block classes. This course is part of professional block and includes Stage 3 Field Experience. Prerequisite: candidacy.

**MLED491 MIDDLE LEVEL CLASSROOM COMMUNITY 3 sem. hrs.**

This course provides pre-service middle level teacher candidates with research-based theories, models, and techniques for building classroom communities whereby young adolescents are highly involved in worthwhile activities that support their learning. Specific topics associated with young adolescent development are significantly addressed. This course will be taken in conjunction with teacher candidates? Stage 4 Student Teaching Experience. Prerequisite: Candidacy.

**MLED495 MIDDLE LEVEL STUDENT TEACHING 3 sem. hrs.**

This culminating experience is coordinated and supervised by University faculty and provides opportunities for teacher candidates to display competency in teaching young

adolescents. (grades 4-8) under the direct daily supervision of a qualified cooperating teacher. This course is part of professional block and provides the Stage 4 Field Experience. Prerequisite: candidacy.

**MUED216 METHODS IN ELEMENTARY AND GENERAL MUSIC TEACHING 3 sem. hrs.**

This course will prepare the student to teach music at the elementary and middle levels. Students must take this course concurrently with MUED217. For music majors only. This course is approved for General Education – Computer Competency.

**MUED217 ELEMENTARY MUSIC FIELD EXPERIENCE 3 sem. hrs.**

This course orients students to elementary and general music programs in public schools through observations. Students should take this course concurrently with MUED216. For music majors only.

**MUED322 MUSIC FOR THE YOUNG CHILD 3 sem. hrs.**

Included in this course are methods, materials, and procedures in music related to pre-school, kindergarten, and primary grades. An understanding of the nature and special needs of the young child is stressed.

**MUED418 METHODS IN SECONDARY INSTRUMENTAL AND VOCAL METHODS 3 sem. hrs.**

This course will prepare the student to teach instrumental and vocal music at the secondary level. Prerequisites: MUED216 and MUED217.

**MUED419 SECONDARY MUSIC FIELD EXPERIENCE 1 sem. hr.**

This course orients students to secondary music programs in public schools through supervised observations. Students must take this course concurrently with MUED418. For music majors only.

**MUED495 STUDENT TEACHING 12 sem. hrs.**

This culminating experience, supervised by Music Department faculty, provides teaching opportunities to display competency in general, instrumental and vocal music programs in elementary, middle, and secondary schools. Prerequisites: teacher certification requirements.

**MUSIC ENSEMBLES**

Ensembles may be taken for 1 credit. Ensembles may be repeated for credit. A maximum of four (4) semester hours may be used as free electives for non-music majors. Music majors may

count up to seven (7) ensemble credits toward the 120 hour curriculum. Ensemble limitation, director acceptance, and advisor agreement will determine enrollment in ensembles.

**MUSC051 MARCHING BAND 1 sem. hr.**

The *Spirit of the Scots* Marching Band consists of musicians, Tam-O-Shanters (dance line), and Color Guard members. The Marching Band performs at all home football games and accompanies the team on selected out-of-town trips each year. The Marching Band also performs at professional football games and at high school marching band festivals and competitions. Membership is open to any interested student. Auditions for the Tam-O-Shanters and Color Guard are held on campus each spring.

**MUSC053 UNIVERSITY CHORALE 1 sem. hr.**

University Chorale is an ensemble specializing in choral literature of all ages, preparing concerts for tours of the area and on campus. (Prerequisite: Permission of the instructor determined by audition.)

**MUSC054 UNIVERSITY SINGERS 1 sem. hr.**

The University Singers is a large ensemble formed by the union of the choral ensembles on campus, performing the literature of the masters, usually in conjunction with the orchestra or one of the bands. (Prerequisite: Permission of the instructor determined by audition.)

**MUSC058 JAZZ ENSEMBLE 1 sem. hr.**

The Edinboro University Jazz Ensemble is a performance organization which performs the finest jazz repertory available. The ensemble presents concerts throughout the year at various locations on and off campus. Membership is open to all students. Prerequisite: Permission of the instructor, determined by audition.

**MUSC059 JAZZ COMBO 1 sem. hr.**

Students enrolled in Jazz Combo will be grouped into small ensembles that will work on performance and improvisation of jazz. Groups will perform each semester in a variety of venues both on and off campus. A fundamental understanding of scales, modes and seventh chords is required. Membership is open to all students. MUSC059 may be repeated for credit. Prerequisite: permission of the instructor, determined by audition.

**MUSC060 ORCHESTRA 1 sem. hr.**

**MUSC061 BRASS CHOIR 1 sem. hr.**

**MUSC062 WOODWIND CHOIR 1 sem. hr.**

**MUSC063 PERCUSSION ENSEMBLE 1 sem. hr.**

**MUSC065 SYMPHONIC WIND ENSEMBLE 1 sem. hr.**

The Symphonic Wind Ensemble is open to all regularly enrolled students regardless of major. It performs the finest repertoire in original band music as well as orchestral transcriptions. In addition to its regular Edinboro University concert series, the Symphonic Wind Ensemble provides music for Commencement ceremonies. Prerequisite: Permission of the instructor, determined by audition.

**MUSC066 OPERA WORKSHOP 1 sem. hr.****MUSC067 PIANO ACCOMPANYING ENSEMBLE 1 sem. hr.**

This course provides students with piano accompanying opportunities under the supervision of piano faculty.

**MUSC068 UNIVERSITY WOMEN'S CHORUS 1 sem. hr.**

University Women's Chorus may be taken for one credit or no credit, and may be repeated for credit. A maximum of four semester hours may be used as free electives for non-music majors. The Edinboro University Women's Chorus allows students to experience a broad range of choral literature, to communicate effectively with an audience, to develop sensitivity to the requirements of ensemble performance, and to experience a wide variety of pedagogical choral strategies.

**MUSC069 PEP BAND 1 sem. hr.**

The Pep Band is a highly spirited and close-knit group that performs at all men's home basketball games and at select women's games. The band also performs at local post-season tournament basketball games. Membership is open to all University students.

**MUSC070 GUITAR ENSEMBLE 1 sem. hr.**

The Guitar Ensemble prepares music for two or more guitars for public performance. Guitar accompaniment for vocal or instrumental soloists may also be a part of the ensemble repertoire. Prerequisite: Permission of the Instructor as determined by audition.

**MUSC071 STRING ENSEMBLE 1 sem. hr.**

String Ensemble concentrates on chamber literature for string groups. The ensemble is open to any student with appropriate stringed instrument background.

**MUSC072 PIPE BAND 1 sem. hr.**

The Pipe Band prepares music for an ensemble of bagpipes and percussion for public performance. Music to be selected for the Pipe Band will be chosen for its appropriateness with respect to the number of performers in the group and their capabilities. The ensemble is open to any student.

**MUSC073 UNIVERSITY MEN'S CHORUS 1 sem. hr.**

The University Men's Chorus is open to members of the local and campus community. The ensemble performs excellent literature for men's voices and, in conjunction with other campus choirs, literature for mixed voices. This course enables its members to experience a broad range of choral literature, to develop skills in vocal performance, to communicate effectively with an audience, to develop sensitivity to the requirements of ensemble performance, and to experience a wide variety of pedagogical choral strategies.

**MUSC010 BASIC MUSICIANSHIP 3 sem. hrs.**

This course for majors deficient in basic theoretical constructs emphasizes musical rudiments. Placement in the course is determined by examination given before the start of the semester. This course is offered on a Satisfactory/Unsatisfactory grading basis only, and the credits do not count toward graduation.

**MUSC103 INTRODUCTION TO MUSIC 3 sem. hrs.**

This course introduces the student to music heard throughout the world today. It includes Western, non-Western, folk, jazz, and modern music. This course is approved for General Education – Core 1.

**MUSC104 AURAL SKILLS I 1 sem. hr.**

This course introduces the fundamentals of solfege and ear training.

**MUSC110 RECREATIONAL PIANO I 1 sem. hr.**

This is an introductory course to teach very basic piano skills to students with limited or no musical background. The approach will be a combination of note and reading skills, improvisation, and simple chording. Not open to music majors.

**MUSC113 CLASS VOICE I 1 sem. hr.**

This course is the study of voice by group instruction. Included are essentials of vocal techniques and standard song repertoire.

**MUSC119 GUITAR CLASS 1 sem. hr.**

A laboratory course designed to enable music education majors and non-majors to acquire elementary proficiency in guitar techniques. Students must provide their own instruments.

**MUSC124 MUSICIANSHIP I 4 sem. hrs.**

This course emphasizes musical rudiments and basic aural skills. The fundamentals of solfege and dictation are introduced. For music majors only or with permission of the instructor.

**MUSC125 MUSICIANSHIP II 4 sem. hrs.**

This course offers comprehensive work in diatonic harmony. It includes written work, analysis and composition. Intermediate skills in solfege and dictation are developed. Students begin an exploration of musical structures from the simple phrase to more complex forms. Prerequisite: Satisfactory completion of MUSC124. For music majors only or permission of the instructor.

**MUSC136 PIANO LAB I 1 sem. hr.**

This course introduces keyboard technique and basic music skills. It requires little or no piano background. Designed for music majors.

**MUSC137 PIANO LAB II 1 sem. hr.**

This course continues Piano Lab I. It introduces intermediate keyboard and theoretical skills. Prerequisite: MUSC136 or permission of instructor.

**MUSC130-435 APPLIED MUSIC each 1 sem. hr.**

Applied instruction will continue the development of repertoire, exercises, and special techniques leading to the satisfactory attainment of proficiencies as established by the Department. Credit for Applied Music is given on the basis of 1 semester hour credit for each 1/2 hour lesson a week. The following are included in Applied Music instruction: voice, piano, flute, oboe, clarinet, saxophone, bassoon, horn, trumpet, trombone, euphonium, tuba, violin, viola, cello, bass, percussion, organ, bagpipes and guitar.

**MUSC201 FUNDAMENTALS OF MUSIC 3 sem. hrs.**

This course acquaints students with musical notation, the basic materials and elements of the musical language, piano and recorder techniques, and independent singing of simple songs. Not open to music majors. This course is approved for General Education – Distribution 1.

**MUSC202 GUITAR FUNDAMENTALS 3 sem. hrs.**

This course acquaints students with musical notation, introduces them to basic theoretical principles, and provides them with a rudimentary guitar technique and applies music theory to guitar performance.

**MUSC207 JAZZ IMPROVISATION 3 sem. hrs.**

This course introduces jazz improvisation. Various styles from traditional to free jazz will be experienced through listening, analysis and performance. Prerequisite: MUSC121 or consent of the instructor.

**MUSC211 WORLD MUSIC****3 sem. hrs.**

This course introduces students to music from outside the sphere of western influence and examines its cultural function. This course is approved for General Education – Distribution 1.

**MUSC214 WOODWINDS CLASS****2 sem. hr.**

An introduction to playing and teaching woodwind instruments. Students will be expected to develop an elementary proficiency on each instrument. Prerequisite: Satisfactory completion of MUSC124. For music majors only or permission of instructor.

**MUSC215 STRING CLASS I****1 sem. hr.**

An introduction to playing and teaching the string instruments. Techniques of tone production, bowing, fingering, and class procedure learned through individual and ensemble playing. Music majors only.

**MUSC216 STRING CLASS II****1 sem. hr.**

The course will emphasize the practical application of string techniques and specific problems in string pedagogy. Prerequisite: MUSC215.

**MUSC219 MARCHING BAND****TECHNIQUES 1 sem. hr.**

This course includes basic marching band techniques with practical secondary public school applications in drill design, rehearsal techniques, and the administration of the marching band. It introduces computer software for drill design/animation.

**MUSC220 STAGEBAND****TECHNIQUES 1 sem. hr.**

The organization, materials, and rehearsal problems of the large jazz ensemble of today's schools and colleges.

**MUSC223 DICTION FOR SINGERS****1 sem. hr.**

This course introduces the solo/choral singer, choral conductor and vocal instructor to the International Phonetic Alphabet and its application to vocal music. It presents rules of transcription and applies them to texts taken from the English, German, Italian, French and Latin vocal music repertoire. Prerequisite: MUSC130, MUSC113, or permission of the instructor.

**MUSC224 MUSICIANSHIP III****4 sem. hrs.**

This course focuses upon chromatic harmony and analysis. It includes written work, analysis and composition. Advanced skills in

solfege and dictation are developed. Students continue an exploration of musical structures from the simple phrase to more complex forms. Prerequisite: Satisfactory completion of MUSC125. For music majors only or permission of the instructor.

**MUSC225 MUSICIANSHIP IV****4 sem. hrs.**

This course continues the study of chromaticism in tonal music and introduces 20th century musical techniques through written work, analysis and composition. Students continue an exploration of musical structures from the simple phrase to more complex forms. Prerequisite: Satisfactory completion of MUSC224. For music majors only or permission of the instructor.

**MUSC240 MUSIC OF BROADWAY****3 sem. hrs.**

This course acquaints students with the cultural heritage and historical development of popular music for the American stage from the ballad operas of the 18th century to contemporary Broadway musicals. It includes listening to and discussing various recordings of minstrel shows, operettas, musical comedies, and current Broadway shows. Not open to music majors. This course is approved for General Education – Distribution 1.

**MUSC241 MUSIC AND THE MEDIA****3 sem. hrs.**

Students study the role of music relative to contemporary broadcast media, film and society. Discussions include the evolution of music in the popular culture, its influence on society and its psychological impact in advertising, radio, television, film and other genre. Not open to music majors. This course is approved for General Education – Distribution 1.

**MUSC246 MUSIC IN WORSHIP****3 sem. hrs.**

The course examines the use of music in church and synagogue and the historical roots from which present practices have evolved, including Protestant, Catholic, Orthodox and Jewish traditions. Various musical forms and examples will be heard and discussed.

**MUSC247 MUSIC, GENDER, AND IDENTITY****3 sem. hrs.**

This course will examine the recent interest in the role of gender and social/cultural construction of sexual identities in shaping music. In addition, an awareness of women, gay men, lesbians, and transgendered people as composers, improvisers, song writers and sound artists will be explored to gain an historical perspective of their role in music. This course is approved for General Education – Core 5.

**MUSC250 MUSIC HISTORY I****3 sem. hrs.**

This course examines the history and styles of Western music from its ancient origins to approximately 1750. Prerequisite: MUSC103 (for majors).

**MUSC251 MUSIC HISTORY II****3 sem. hrs.**

This course examines the history and styles of classical, romantic, and 20th century music. Both western and non-western music will be considered from a historical and analytical perspective. Prerequisite: MUSC103 (for majors).

**MUSC304 TWENTIETH CENTURY TECHNIQUES****3 sem. hrs.**

This course examines the changing language of music in the twentieth century, from Debussy to the present. It emphasizes and compares twentieth century compositional procedures. Prerequisite: MUSC222 or permission of the instructor.

**MUSC305 TECHNIQUES OF ACCOMPANYING****1 sem. hr.**

This course is designed for keyboard majors and others with advanced keyboard skills. Emphasis is on the development of the technical and artistic skills of accompanying through the study of accompaniment literature. Prerequisite: MUSC130 (Applied Piano) or permission of the instructor.

**MUSC307 OPERA****3 sem. hrs.**

This course surveys opera from its beginnings in the Baroque period to the present. It emphasizes viewing and listening to operas from the repertoire that influenced the course of opera history. Prerequisite: MUSC103.

**MUSC312 ADVANCED KEYBOARD TECHNIQUES****1 sem. hr.**

This course for keyboard majors and others with advanced keyboard skills emphasizes comprehension in reading, skill in interpretation, and facility in execution. Prerequisite: MUSC130 (Applied Piano) or permission of instructor.

**MUSC317 BRASS CLASS****1 sem. hr.**

An introduction to playing and teaching the brass instruments. Techniques of tone production, fingering, and class procedure learned through individual and ensemble playing. Music majors only.

**MUSC318 PERCUSSION CLASS****1 sem. hr.**

All standard percussion instruments will be studied. Students will be expected to develop an elementary proficiency on several instruments. Music majors only.

**MUSC320 ARRANGING 3 sem. hrs.**  
This course introduces music majors to basic concepts in arranging through both analysis and composition. Prerequisite: **MUSC225** or permission of the instructor.

**MUSC322 BASIC CONDUCTING 1 sem. hr.**  
This course is an introduction to the fundamentals of conducting techniques, including the use of the baton, expressive gestures, basic patterns and score reading in the areas of choral, wind, and orchestral music. Prerequisite: **MUSC121** or permission of the instructor.

**MUSC327 ADVANCED CHORAL CONDUCTING 2 sem. hrs.**  
This course gives an in-depth study to techniques of choral conducting. It emphasizes musical expression, use of the left hand, rehearsal techniques, and concert programming. Prerequisite: **MUSC322**.

**MUSC328 ADVANCED INSTRUMENTAL CONDUCTING 2 sem. hrs.**  
This course offers an in-depth study of the techniques of instrumental conducting. It emphasizes development of technical and artistic skills and the communication of those skills. Prerequisite: **MUSC322**.

**MUSC343 EVOLUTION OF JAZZ 3 sem. hrs.**  
This course examines the evolution of jazz music from its inception to its current styles, and studies characteristics of several music styles together with important performers and literature. This course is approved for General Education – Distribution 1.

**MUSC344 AMERICAN MUSIC 3 sem. hrs.**  
This course presents a comprehensive overview of the history of American music. The approach is basically historical, but there is also a strong emphasis on listening to representative examples of music from various periods in the development of our country's musical heritage. This course is approved for General Education – Distribution 1.

**MUSC404 CHORAL LITERATURE 3 sem. hrs.**  
This course presents major choral works from the Renaissance to the present, and emphasizes resources and styles of each period. Prerequisite: **MUSC221** and **MUSC103** or permission of the instructor.

**MUSC412 FORM AND COMPOSITION 3 sem. hrs.**  
The student will compose songs, works for solo instruments with piano, and voices and instruments in combination. Prerequisite: **MUSC222** or consent of the instructor.

**MUSC416 INSTRUMENTAL ARRANGING 3 sem. hrs.**  
This course provides a hands-on experience in arranging music for various combinations of instruments. Activities include transcription, orchestration, and arranging through MIDI sequencing techniques. Prerequisite: **MUSC222** or permission of the instructor.

**MUSC417 CHORAL ARRANGING 3 sem. hrs.**  
An introduction to the techniques of arranging for various vocal ensembles with emphasis on the music in smaller forms for school use. Prerequisite: **MUSC222** or consent of the instructor.

**MUSC490 INDEPENDENT STUDY IN MUSIC 2-5 sem. hrs.**  
The Independent Study program aims to serve those students whose scholarly bent seems most clearly adapted to independent work. Students are permitted to resolve problems and to earn credit for work performed outside the classroom requirement of any specific course in the curriculum.

**MUSC503 MUSIC OF THE BRITISH ISLES 3 sem. hrs.**  
This course examines the music and musical traditions of the British Isles. It emphasizes original art music by native and foreign composers and investigates indigenous folk music.

**MUSC514 COUNTERPOINT I 3 sem. hrs.**  
The study of 17th and 18th century contrapuntal techniques with emphasis on basic technique through the writing of species counterpoint, 2 and 3-part inventions and forms based on the chorale. Development of writing skills will be accomplished through assigned exercises and original work, as well as through analysis of the music of Bach. Prerequisites: **MUSC222** or consent of the instructor.

## - N -

**NMED401 BASIC MATH AND NUCLEAR PHYSICS 3 sem. hrs.**  
This course entails basic mathematics pertinent to nuclear medicine – algebraic operations, scientific notation, exponentials, logarithms, graphing, formulae – plus physical principles, concepts, and quantitations of mass-energy relationships, atomic structure, radioactive decay schemes, half-life, units of exposure and dose, shielding formulae, and radionuclide equilibrium states.

**NMED402 NUCLEAR MEDICINE INSTRUMENTATION 3 sem. hrs.**  
Topics included are concepts of gas-filled radiation detectors, scintillation detectors, scintillation spectrometers and components, spectrometer operation, and spectrometer quality determination and control. Rectilinear scanners – function, construction, usage, and scanner data presentation – collimation, imaging cameras and their control, plus modulation transfer, are also entailed in the course.

**NMED403 RADIONUCLIDE MEASUREMENTS 3 sem. hrs.**  
This course presents the use of computers in nuclear medicine. Topics include computer hardware, memories, software, firmware and types of computers. Liquid scintillation, solid state detection, ultrasound, fluorescent scanning, computerized axial tomography and emission tomography are presented as to their dependence on computer techniques.

**NMED404 RADIOBIOLOGY AND RADIATION PROTECTION 3 sem. hrs.**  
Presentations include biological ionizations, dosimetry, exposure calculation and prognosis, radiologic effects – molecular, cellular tissue, organ, and whole body – early, late, acute, and chronic effects of radiation, radiation protection, personnel and environmental monitoring, licensing requirements, identification and marking of radiation areas, radionuclide storage and disposal, and management of clinical radiation emergencies.

**NMED405 PHYSIOLOGY, HEMATOLOGY, AND CHEMISTRY 3 sem. hrs.**  
The course incorporates a study of numerous concepts of chemistry, physiology, hematology and gastroenterology. Topics include chemical bonding, crystals, colloids, chemical separation techniques, applicable biochemical concepts, and the chemistry of radiographic film processing. Major human organ and organ systems are presented as to their cellular and molecular mechanisms and as to their relationships with each other. Particular emphasis is given to the bloodstream injection and transfer of radionuclides, to organ accumulation and excretory removal of nuclides, to gastrointestinal transfer and absorption measurements. Related topics in pathology, patient dose administration, instrumentation, methodologies and nuclear medicine techniques are also included.

**NMED406 CLINICAL  
RADIONUCLIDES****4 sem. hrs.**

Discussions include tracer theory, radionuclide production and occurrence, pharmacologic properties and actions of radiopharmaceuticals, methods of localization, radiopharmaceutical preparations and their quality control, patient dose preparation and administration. Radioimmunoassay principles, types, usage, quantitation, and methodology are also presented. Related subjects in human hormone structures, principles of immunology, sensitivity and specificity of preparations, proper protocols and techniques, and sources of error are included.

**NMED407 NUCLEAR MEDICINE  
PROCEDURES****6 sem. hrs.**

Included in this course are properties and selection of therapeutic radiopharmaceuticals, dose preparation and administration, applicable statistical concepts, physiology and pathology. Consideration is given to different types of radiation therapy, their relative worth, patient safety, hospital function and safety, ethical patient communication, patient movement and transfer, first aid and management of emergency situations emphasizing cardiopulmonary resuscitation (CPR), medical asperis, isolation techniques, vital sign determinations, accident prevention, safety precautions, and professional attitudes and responsibilities to the patient.

**NMED408 CLINICAL MEDICINE  
PRACTICUM****7 sem. hrs.**

Students receive clinical training for a period of 33 weeks. This training is effected in a nuclear medicine department in a selected hospital. Under careful supervision, the student receives instruction in virtually every area of the practice of clinical nuclear medicine, e.g., imaging procedures, organ concentration-excretion measurements, radioimmunoassay, therapy procedures, patient scheduling, radiopharmaceutical preparation, proper instrumentation usage and quality control, and the practice of proper, effective radiological safety.

**NUHL100 CONTEMPORARY  
WOMEN'S HEALTH****3 sem. hrs.**

This course focuses on women's health issues past, present, and future. It reviews normal female development and health promotion/disease prevention, and emphasizes women's health concerns, lifestyle issues, female sexuality across the life span, physical and mental health problems, social support, multiple roles, and economic issues.

**NUHL222 STRESS MANAGEMENT  
FOR LIFE****3 sem. hrs.**

This course is designed to acquaint the student with current evidence-based research on the human stress response. Assessment activities developed from a holistic perspective will demonstrate the psychological, behavioral and physiological/biological effects of stress. The student will be encouraged to invest in a personal inventory of the impact of stress in his/her life, mobilize resources and social supports, consider life changes, and learn other stress reduction techniques to maximize adaptation to stress. The emphasis will be on experiential activities in and out of the classroom to help the student explore the adaptive use of social supports, resources and coping mechanisms to deal with the stresses of today's social culture. In addition, it will investigate stress factors and responses in vulnerable populations. Prerequisite: **PSYC 101**.

**NUHL425 DISASTER RESPONSE  
AND RECOVERY****3 sem. hrs.**

This course is designed to provide students with the theory and evidence-based practice principles needed to apply primary, secondary, and tertiary care during and after disasters. Emphasis is on the role of the professional in collaboration with the multidisciplinary team during the triage and follow-up care of disaster victims. Prerequisites: Bachelor degree students who have junior standing and have permission of instructor. Preference is given to disciplines such as human services, psychology, sciences, and educational leadership.

**NUHL500 END-OF-LIFE CARE****3 sem. hrs.**

This course prepares the professional student from a variety of disciplines to deliver care to patients and their families facing terminal illness. The course emphasizes aspects of nursing care that enable students to address the physical, psychosocial, and spiritual needs of patients and families at life's end. Ethical and legal issues concerning end-of-life care are explored.

**NUHL505 GERONTOLOGY AND  
THE HEALTHCARE  
PROFESSIONAL****2 sem. hrs.**

This theory course is designed to address core values, knowledge, and competencies that are essential in preparing the healthcare professional to care for an increasingly aged population. Content includes a holistic geriatric-focused assessment, including the influence of culture, gender, life style, family, and other factors on the wellbeing of older adults. Health promotion and disease prevention, acute and chronic conditions common to the elderly, and access to care

are explored within the context of the interdisciplinary healthcare team. Additional gerontological care issues, such as elder abuse/neglect, pharmacological considerations, pain/palliative measures and teaching/learning strategies are highlighted. Prerequisites: for students currently holding LPN licensure and all other nursing students: **PSYC319**, concurrent with or before **NURS303**. For students currently holding RN licensure and non-nursing majors: **PSYC319**.

**NUHL511 FRONTIERS OF HEALING:  
THERAPEUTIC TOUCH****3 sem. hrs.**

This course provides students from a variety of disciplines an opportunity to learn the theory and technique of therapeutic touch (TT). Therapeutic touch is a contemporary interpretation of ancient healing arts involving the intelligent direction of energy where the practitioner uses the hands as a focus for healing. Uses and goals of TT are presented, including applications across the lifespan and in a variety of clinical conditions. Theoretical frameworks that provide the conceptual basis for TT are explored, and current research in the field as well as sociopolitical influences are examined with regard to their impact on the future development of TT. Experiential activities are provided to assist students in learning the phases of TT and acquire the skills needed to develop as a therapeutic touch practitioner.

**NURS101 INTRO TO  
PROFESSIONAL  
NURSING****1 sem. hrs.**

This course provides an introduction to the profession of nursing. The history of nursing and the role of nursing today will be examined with an emphasis on communication, cultural sensitivity, ethics, safety and quality. Health promotion and disease prevention will also be explored.

**NURS201 NURSING ASSESSMENT****3.5 sem. hrs.**

This course prepares the student to obtain a holistic assessment of adult individuals including health history and physical assessment within a cultural context. Emphasis is placed on the use of therapeutic communication, adult and aging adult assessment, and application of Gordon's Functional Health Patterns, and beginning use of research to support the assessment process. The nursing process is utilized as the organizing framework for nursing practice, and the role of the nurse as provider of care is explored. Clinical laboratory demonstrates the application of theory content. Prerequisites: **NURS 101, BIOL 104, BIOL 312, BIOL 313, CHEM 140, PSYC 101, SOC 100**.  
**Corequisites: BIOL 318, NURS 435**

**NURS202 FUNDAMENTAL NURSING INTERVENTIONS****3.5 sem. hrs.**

This course builds on material introduced in NURS201. Content prepares the nursing student for therapeutic nursing interventions to clinically stable patients experiencing minor health deviations. Emphasis is on the role of the nurse as provider of culturally sensitive care to individuals. Clinical laboratory provides opportunities to perform the skills and nursing actions that promote and assist patients in meeting their needs. The relationship of nursing research to practice is explored. Prerequisites: **NURS201, NURS435.**

**NURS301 MATERNAL/NEWBORN/FAMILY-CENTERED NURSING****3 sem. hrs.**

This course provides students with the nursing theory and evidence-based practice principles to recognize and promote health during pregnancy and childbirth. The belief that pregnancy, childbirth, and developmental changes in a woman's life are natural processes and are essentially wellness-focused pervades the course content. Prerequisites: **NURS202, NUTR 310, PSYC 317.** Co-requisites: **NURS 302, NURS 305.**

**NURS302 PEDIATRIC AND FAMILY-CENTERED NURSING****3 sem. hrs.**

This course prepares the student to provide culturally sensitive care for children (birth-21 years) and their families with acute and chronic health problems. The student as coordinator of care, places emphasis upon the family unit. Building on previous learning, students will identify relevant diagnoses, outcomes and interventions consistent with evidence-based practice. Prerequisites: **NURS 202, PSYC 317.** Corequisites: **NURS 301, NURS 305.**

**NURS303 ADULT HEALTH NURSING I****7 sem. hrs.**

This course is designed to build on previous learning and provide students with theory and research related to common adult health problems and their collaborative management. Emphasis is on delivery of culturally-sensitive care to individuals with adult-health problems and their families with the student functioning in the role of coordinator of care. Students adopt professional attitudes and advocate for patients with complex care needs and their families. They develop greater proficiency with interpretation of patient data as well as technical skill performance. Students also build on previously learned communication skills in their interviewing/teaching/interacting with patients and families as well as the development of collegial relationships within the interdisciplinary team. Prerequisites for all students: **NUTR310, NURS202, NURS435.** Prerequisite or concurrent courses: **PSYC319, NURS320.**

**NURS305 MATERNAL, PEDIATRIC, AND FAMILY-CENTERED NURSING****2 sem. hrs.**

This course provides the student with clinical opportunities to apply evidence-based practice principles in delivering culturally sensitive care to women of child-bearing age, pediatric patients (birth-21 years), and their families. As coordinator of care, emphasis is placed upon the family unit. Building on previous learning, student will identify relevant diagnoses, outcomes and interventions consistent with evidence-based practice. Prerequisite: **NURS 202.** Corequisite: **NURS 301, NURS 302.**

**NURS320 PHARMACOTHERAPEUTICS IN NURSING****3 sem. hrs.**

This course presents principles of pharmacotherapeutics applicable to professional nursing practice. It emphasizes the nurse's collaborative role and responsibilities related to safe medication administration utilizing the nursing process. Specifically, this course will address drug safety, classification, mechanism of action, usual dose, interactions, side/adverse effects, contraindications, and nursing responsibilities. Prerequisites for all students: **NURS202.** Innovative: **Coreq with NURS435 and NURS455.**

**NURS400 NURSING LEADERSHIP****2 sem. hrs.**

This course focuses on leadership development for entry-level professional nursing practice. Emphasis is placed on the skills employed by highly successful nurse leaders/managers. A broad scope of nursing practice is examined that includes coordinating client care, professional issues and responsibilities, environmental safety, legal, ethical and security issues. Prerequisites: **NURS301, NURS302, NURS303, NURS320, NURS435.** Innovative Prerequisites: **NURS461, NURS464, NURS467.**

**NURS401 COMMUNITY HEALTH NURSING****3 sem. hrs.**

This course prepares the student to provide health-promoting culturally sensitive nursing care for individuals, families, and groups from a community and global perspective. Emphasis is on exploring evidence-based care in community settings. Health-promoting interventions are implemented through application of Gordon's Functional Health Patterns. Students utilize knowledge from the sciences and humanities, critical thinking, and the nursing process to synthesize data and provide a research-based approach to nursing care. Prerequisite **NURS 320.** Corequisites: **NURS 400, NURS 402, NURS 405.**

**NURS402 MENTAL HEALTH NURSING****3 sem. hrs.**

This course prepares the student to provide culturally-sensitive nursing care for individuals throughout the life-span with behavioral health problems. Emphasis is placed on psychological development, psychopathology, patient education, treatment modalities and therapeutic nurse-patient relationships. The student utilizes knowledge from the sciences and humanities, critical thinking, and the nursing process to synthesize data and provide a research based approach to nursing care. Prerequisites: **NURS 305, NURS 320.** Corequisites: **NURS 400, NURS 401, NURS 405.**

**NURS403 ADULT HEALTH NURSING II****8 sem. hrs.**

This is an advanced course for senior-level nursing students. Evidence-based theory relates to the care of adults experiencing life-threatening events. Clinical practicum expands the role of designer/manager of care and strengthens clinical decision making to enhance nursing leadership and professional nursing practice. Lecture 2 credit hours and Clinical 6 credit hours for this 15-week course. Prerequisites: **NURS301, NURS302, NURS303, NURS320, NURS435;** prerequisite or concurrent with **NURS400.**

**NURS405 COMMUNITY-BEHAVIORAL HEALTH NURSING****2 sem. hrs.**

This course combines elements of community health and behavioral health. Students promote maximum levels of behavioral, physical, and spiritual health for individuals in a variety of patient settings. Students incorporate essential public health principles in the provision of culturally sensitive, health promotion for populations. Emphasis is placed on identifying relevant nursing diagnoses and applying interventions consistent with evidence-based practice. Prerequisites: **NURS 305, NURS 320.** Corequisites: **NURS 400, NURS 401, NURS 402.**

**NURS406 ROLE OF THE PROFESSIONAL NURSE****3 sem. hrs.**

The registered nurse student will be introduced to baccalaureate-level nursing roles, concepts, and theories to integrate new role expectations in professional practice. Gordon's Functional Health Patterns and the NANDA classification system is the framework for identifying health problems based on data collected through patient health history and physical assessment. Nursing theory and research are introduced by application to evidence-based practice. Prerequisites: Acceptance into the online RN to BSN program.



**NURS407 TRENDS AND ISSUES IN PROFESSIONAL NURSING 3 sem. hrs.**

This course examines issues that affect nurses and the healthcare systems in which they practice. Topics relate to nursing practice, nursing education, and the impact they have on patient care. Recognizing the dynamic nature of the nursing profession, in addition to the outlined content, time is allotted to discuss up-to-the-moment situations faced by the registered nurse student in current practice. Prerequisite: **NURS406**.

**NURS408 NURSING LEADERSHIP AND MANAGEMENT 3 sem. hrs.**

This course exposes the RN student to theoretical concepts underlying nursing leadership and management. Health care and nursing are analyzed within both a service and a business context. Issues related to evolving healthcare systems, organizational structure, nursing demographics, quality improvement, financial management, staffing & scheduling, evidence-based practice, and clinical decision making are applied to the expanding nursing role. Prerequisites: **NURS406, NURS407** (may be taken in the same semester as **NURS407**)

**NURS409 PUBLIC HEALTH NURSING 4 sem. hrs.**

This course assists the student in synthesizing data and applying knowledge to examine health-promoting behaviors from a community and global perspective. Emphasis is on problem-solving with multiple individuals, families and groups, providing culturally sensitive care in community settings. Students gain an appreciation for the role of change agent and the need to be actively involved in research to develop healthcare policy. Prerequisites: Current RN licensure and **NURS407**.

**NURS415 UNDERSTANDING NURSING RESEARCH 3 sem. hrs.**

This course introduces the student to research in nursing practice. It reviews historical evolution of nursing research with application to current knowledge and practice. The research process emphasizes the ability to critically evaluate and utilize research in practice. Ethical considerations in research will be explored. Utilization of informatics skills in identifying and locating current and benchmark literature will be included. Prerequisites: Traditional Prerequisites: **MATH260, NURS400 or NURS403; Innovative Prereq: NURS400 or NURS474. RN-BSN: Prerequisites: MATH260 and NURS408.**

**NURS420 FORENSIC NURSING 3 sem. hrs.**

This course provides an introduction to the historical development and emerging roles in the specialty practice of forensic nursing. Participants will explore the more common role of the sexual assault nurse examiner (SANE), as well as the evolving roles of the forensic nurse in evidence collection, expert witness testimony, and investigation of real and potential causes of morbidity and mortality in a variety of settings. This course provides concepts related to the fundamentals of forensic nursing, law, mental health, and science that are necessary for the nurse to function as a liaison between the criminal justice and healthcare systems. Expanding roles of the forensic nurse in bioterrorism, domestic and international investigations of human rights abuse, and as death examiner are explored. Research findings related to the issues and roles of forensic nursing are critiqued. Prerequisites: **PSYC317, PSYC319,**

**NURS425 CRITICAL THINKING IN NURSING 2 sem. hrs.**

This course is designed to enhance critical thinking and promote the development of problem solving and decision making skills to the level required for professional nursing practice in today's demanding healthcare delivery system. Although fundamental theory based in cognitive science will be presented, emphasis will be placed on application within a nursing context. Critical thinking will be defined, characteristics of the critical thinker will be examined, personal thinking styles will be analyzed, and strategies to develop the process of critical thinking will be practiced. Application will focus on clinical nursing scenarios to aid in the development of critical thinking skills specific to professional nursing practice. Prerequisites: **NURS301, NURS302, and NURS303.** Prerequisites for second baccalaureate students: **NURS461, NURS464, NURS467 and NURS468.**

**NURS435 PATHOLOGICAL PROCESSES FOR NURSING 4 sem. hrs.**

Pathophysiology studies the disruption of homeostasis in the human body. This course provides the foundational knowledge used by the beginning practitioner in the delivery of nursing care. It is designed to facilitate the transfer of knowledge from the basic sciences to diseases encountered in clinical practice. Progressing from general concepts relevant to altered conditions, the course examines specific disease processes encompassing all body systems. Commonly encountered diseases that have a high incidence of occurrence are stressed. The disease, its definition, etiology, incidence/prevalence, pathogenesis, risk factors, clinical manifestations including laboratory values and treatments are examined. The focus of each altered condition

is linked to the importance of this information for a beginning practitioner to implement the nursing process. Prerequisites: **BIOL308or BIOL318 NURS201. Innovative: Concurrent with NURS320 and NURS455.**

**NURS455 FUNDAMENTALS OF NURSING – INNOVATIVE 7 sem. hrs.**

This accelerated course provides an introduction to the nursing process. The student will demonstrate a holistic assessment including a health history and physical assessment utilizing Gordon's Functional Health Patterns. The role of data gatherer will be introduced to promote and assist patients in meeting their needs. Evidence based practice is introduced. Prerequisites: Admission to the Innovative Nursing program. Co requisites: **NURS 320 and NURS 435.**

**NURS461 MATERNAL/NEWBORN and FAMILY-CENTERED NURSING – INNOVATIVE 2 sem. hrs.**

This accelerated course provides students with the nursing theory and evidence-based practice principles to recognize and promote health during pregnancy and childbirth. The belief that pregnancy, childbirth, and developmental changes in a woman's life are natural processes and are essentially wellness-focused pervades the course content. Prerequisite: **NURS 455.** Corequisites: **NURS 464, NURS 465, NUTR 310.**

**NURS464 PEDIATRIC and FAMILY – CENTERED NURSING - INNOVATIVE 2 sem. hrs.**

This accelerated course prepares the student to provide culturally sensitive care for children (birth-21 years) with acute and chronic health issues and their families. The student as coordinator of care, places emphasis on the family unit. Building upon previous learning, students will identify relevant diagnoses, outcomes and interventions consistent with evident-based practice. Prerequisite: **NURS455.** Corequisite: **NURS461, NURS465, NUTR310.**

**NURS465 MATERNAL, PEDIATRIC, AND FAMILY- CENTERED NURSING – INNOVATIVE 2 sem. hrs.**

This accelerated course provides the student with clinical opportunities to apply evidence-based practice principles in delivering culturally sensitive care to women of child-bearing age, pediatric patients (birth-21 years), and their families. The student as coordinator of care, places emphasis upon the family unit. Building on previous learning, student will identify relevant diagnoses, outcomes, and interventions consistent with evidence-based practice. Prerequisite: **NURS455.** Corequisites: **NURS461, NURS464, NUTR310.**

**NURS467 ADULT HEALTH NURSING I – INNOVATIVE****7 sem. hrs.**

This accelerated intermediate level course introduces students to common adult health problems and their collaborative management. Students assume the role of coordinator in providing culturally-sensitive care to adult individuals and their families. They build on previous learning, refine communication skills, and continue to expand their professional role. Prerequisites: **NURS 320, NURS 435, NURS 455.**

**NURS468 BEHAVIORAL HEALTH NURSING – INNOVATIVE****2 sem. hrs.**

This accelerated course prepares the student to provide culturally sensitive nursing care for individuals with behavioral health problems. Emphasis is placed on psychological development, psychopathology, patient education, treatment modalities and therapeutic nurse-patient relationships. The student utilizes knowledge from the sciences and humanities, critical thinking, and the nursing process to synthesize data and provide a research based approach to nursing care. Prerequisite: **NURS467.** Corequisites: **NURS400, NURS415, NURS471, NURS475.**

**NURS471 COMMUNITY HEALTH NURSING – INNOVATIVE****2 sem. hrs.**

This accelerated course prepares the student to provide health-promoting culturally-sensitive nursing care for individuals, families, and groups from a community and global perspective. Emphasis is on providing evidenced-based care in community settings. Health-promoting interventions are implemented through application of Gordon's Functional Health Patterns. Students utilize knowledge from the sciences and humanities, critical thinking, and the nursing process to synthesize data and provide a research-based approach to nursing care. Prerequisite: **NURS467.** Corequisites: **NURS400, NURS415, NURS468, NURS475.**

**NURS474 ADULT HEALTH NURSING II – INNOVATIVE****5 sem. hrs.**

This is an advanced course in a curriculum designed for second baccalaureate nursing students. Evidence-based theory relates to the care of adults experiencing life-threatening events. Clinical practicum expands the role of designer/manager of care and strengthens clinical decision making to enhance nursing leadership and professional nursing practice. Lecture 2 credit hours and Clinical 3 credit hours for this accelerated 7 1/2-week course. Prerequisites: **NURS461, NURS464, NURS467, NURS468;** Prerequisites concurrent with **NURS400.**

**NURS475 COMMUNITY/ BEHAVIORAL HEALTH NURSING – INNOVATIVE****2 sem. hrs.**

This accelerated course combines elements of community health and behavioral health. Students promote maximum levels of behavioral, physical, and spiritual health for individuals in a variety of patient settings. Students incorporate essential public health principles in the provision of culturally sensitive, health promotion for populations. Emphasis is placed on identifying relevant nursing diagnoses and applying interventions consistent with evidence-based practice. Prerequisites: **NURS467.** Corequisites: **NURS400, NURS415, NURS468, NURS471.**

**NUTR310 NUTRITION 3 sem. hrs.**

A course devoted to the comprehensive coverage of the science of nutrition and nutrition therapy. The concepts and fundamentals covered in this course include nutrition and health/lifestyle maintenance; nutrition principles and therapies regarding various disease state; digestion, absorption, and metabolism; and maintaining nutritional health throughout the life cycle. Prerequisite: **BIOL312.**

**- O -****ORST106 INTRODUCTION TO COMPARATIVE ORGANIZATIONAL ETHICS 3 sem. hrs.**

This course examines theories of ethics and leadership, and how organizations and leadership are affected by ethics. Ethical theories related to diverse cultures are surveyed to enable the students to acquaint themselves with basic moral principles and values of critical thinking and decision making. To advance their future role in society, ethical dimensions of leadership in organizations and the role of leaders are emphasized.

**ORST107 INTRODUCTION TO INTERNATIONAL COMMERCE 3 sem. hrs.**

The course introduces the fundamentals of international commerce and global operations of an organization. The emergence of new conditions in the global arena such as political, economic and social conditions of nations, and their impact on organizations are studied. The course emphasizes the vital importance of understanding unique, environmental factors as major determinants of organizational failure and success around the world. This course is approved for General Education Core 2.

**ORST110 INTRODUCTION TO CONSUMERISM 3 sem. hrs.**

This course focuses on shopping, buying and consuming goods and services that deliver desired benefits. It offers a chance to work through the "whys" related to consumer decision making and behavior. Key issues covered in the course include: the changing make-up of American households and its effects on marketplace behavior; the changing ethnic character of North America and resulting consumer behavior patterns; and problems, issues and their impact on society as the result of consumerism. This course is approved for General Education - Core 4.

**ORST111 STARTING A BUSINESS 1 sem. hrs.**

This course introduces students to all major aspects of starting and running a small business. The topics will include getting ready to be an entrepreneur, choosing a right form of business, preparing a business plan, financing, marketing, and building a successful business.

**ORST112 FINANCIAL SKILLS FOR ENTREPRENEURS 1 sem. hrs.**

This course is designed to address basic accounting and financial skills for students who are considering starting their own businesses. The course will introduce students to accounting terminology, the four financial statements, budgeting, financial ratios, and cash management. Prerequisite: **ORST111.**

**ORST113 LEGAL ASPECTS OF ENTREPRENEURSHIP 1 sem. hrs.**

This course provides guidance for people thinking about starting a business. Topics include: registering a business name, trademarks, copyrights and patents, licenses needed, permits, legal liability and Bankruptcy. Prerequisite: **ORST111.**

**ORST114 BASIC MARKETING FOR THE ENTREPRENEUR 1 sem. hr.**

This course is designed to address basic marketing skills for general education students who are considering starting their own businesses. The course presents the "Four P's": Product, Pricing, Promotion and Place (Distribution) and all of the latest marketing thinking and practices. Prerequisite: **ORST111.**

**ORST115 STRATEGIC PLANNING FOR ENTREPRENEURS 1 sem. hr.**

This course is designed to explore strategic planning skills for students who are considering starting their own business. The course will introduce students to the primacy of planning in a firm, analysis of firm and

environmental factors impacting planning, the planning process, and useful tools to improve the effectiveness of planning. Feasibility Plans and Business Plans will be discussed. Prerequisite: **ORST111**.

**ORST116 ENTERPRISE START-UP**  
1 sem. hr.

Since today's world economy is heavily focused on entrepreneurship and the development of new ventures, this course introduces the student to the fundamentals of creating and effectively managing a new venture. This capstone course enables students to execute their ideas, create and grow their businesses by utilizing the knowledge of previous ORST courses. Prerequisite: **ORST 115**.

**ORST200 WOMEN IN BUSINESS**  
3 sem. hrs.

This course is designed to examine the role of women in modern industrial society. Emphasis is placed on the particular difficulty women experience in assuming roles in a predominantly male enterprise. Course content focuses on the differences in male and female orientation, and tools women may use to achieve success in the business environment.

**- P -**

**PHIL120 ANALYSIS OF REASONING**  
1 sem. hr.

This practical course teaches a systematic procedure for analysis and elementary evaluation of reasoning. It emphasizes direct application to realistic cases.

**PHIL200 INTRODUCTION TO PHILOSOPHY AND VALUES**  
3 sem. hrs.

This course examines basic philosophical positions in the areas of ethics, value theory, social and political philosophy, free will and determinism, epistemology, philosophy of religion, and philosophy of mind. This course is approved for General Education – Core 6.

**PHIL204 INTRODUCTION TO WOMEN'S STUDIES**  
3 sem. hrs.

This interdisciplinary course introduces students to the theories and research pertaining to women's experiences and women's status in contemporary society. This course is approved for General Education – Core 5.

**PHIL205 CRITICAL THINKING**  
3 sem. hrs.

Reasoning is a cognitive process by which persons extend their knowledge, explain truths, and persuade others. This course teaches how to recognize, analyze, and evaluate reasoning. It also examines patterns of good reasoning and common errors in reasoning. This course is approved for General Education – Distribution 1.

**PHIL240 INTRODUCTION TO CONTEMPORARY MORAL ISSUES**  
3 sem. hrs.

This course teaches the process and principles of ethical decision-making. It surveys traditional moral theory, and selected case studies involving contemporary moral issues. Students evaluate arguments on the case studies and learn to apply different ethical systems to understand how these systems determine right and wrong in particular cases. This course is approved for General Education – Core 6.

**PHIL260 BUSINESS ETHICS**  
3 sem. hrs.

A study of philosophical theories in relation to ethical issues which arise in business and non-profit administration. Examples of issues might include conflicts of interest and duties; loyalty to organization, to employees and owners or funding sources, private ownership, personal morality and the public interest. Case studies will be used to illustrate the application of ethical theories such as those of Kant or Mill.

**PHIL265 DEATH AND DYING**  
3 sem. hrs.

The course introduces some basic themes such as the stages of grief, suicide, euthanasia, existence of life after death, and strategies for handling the anxiety associated with death. It includes both traditional and contemporary texts related to the philosophical study of death.

**PHIL300 ANCIENT PHILOSOPHY**  
3 sem. hrs.

This course introduces the student to the philosophical thought of Ancient Greece. Beginning with the pre-Socratics (Thales, etc.), the main themes of Greek physics, metaphysics, epistemology, ethics, and politics are reviewed in their historical development. The course ends with the philosophy of Aristotle. This course is approved for General Education – Distribution 1. Prerequisites: **PHIL200** or **PHIL240** or Permission of the Instructor.

**PHIL301 MEDIEVAL PHILOSOPHY**  
3 sem. hrs.

This course deals with the development of philosophical thought from early Christian times to the rise of Modern Philosophy with Descartes. Emphasis is placed on Christian thinkers and especially the Golden Age of Scholasticism. Prerequisites: **PHIL200** or **PHIL240**, or Permission of the Instructor.

**PHIL306 PHILOSOPHY IN POPULAR CULTURE**  
3 sem. hrs.

This course uses popular literature and film to explore our understanding of who we are, where we come from, the nature of society and the world, and the right way to live. From this basis, issues about ethics, social-political

values, metaphysics, and epistemology will be examined. The popular literature or films covered will vary, but the common core will be the structure of myth as analyzed by Plato, Campbell, and Keen. Prerequisites: **PHIL200** or Permission of the Instructor.

**PHIL310 EASTERN PHILOSOPHY**  
3 sem. hrs.

This course introduces Eastern thought through a study of its major structures in their historical setting, aimed at an understanding of its characteristic vision. It examines traditional perspectives such as Confucianism, Taoism, Buddhism, Hinduism, Shinto and Zen. This course is approved for General Education – Distribution 1.

**PHIL311 WORLD RELIGIONS**  
3 sem. hrs.

This course introduces the student to the great and living religions of the world: Buddhism, Hinduism, Confucianism, Taoism, Judaism, Christianity, and Islam. Those perennial insights are stressed that make these religions relevant and meaningful to contemporary persons. This course is approved for General Education – Distribution 1.

**PHIL312 BLACK/WHITE: APPEARANCE AND REALITY**  
3 sem. hrs.

Emphasis in this course is on discovering the meaning of racial injustice for the victims, for those who participate in it, and for society as a whole and on the relation of racism to other forms of oppression. The search for solutions may be traced in the writings of several Third World thinkers as well as American authors. This course is approved for General Education – Distribution 1.

**PHIL313 AFRICAN PHILOSOPHY**  
3 sem. hrs.

This course is a survey of African philosophy focusing on key metaphysical, moral, and social ideas. It begins by studying the question of whether or not there is a unique African philosophy, determines that there is, and then traces the development of that philosophy. Topics include the nature of God, the natural world, the human person, morality, time, and the good life. The course pays special attention to the differences and similarities between African and Western philosophical ideas.

**PHIL317 THE MEANING OF LIFE**  
3 sem. hrs.

This course explores the question of the meaning of life, distinguishing different versions, and critically examines several different answers, both religious and secular, to these questions. The emphasis is on helping students to develop and defend their own answers. Prerequisite: ENGL102 and one Philosophy course (200-level or higher), or permission of instructor.

**PHIL318 MARXISM 3 sem. hrs.**  
Careful examination is made of the Marxist philosophy of nature, man, history, the state and revolution. Emphasis is on reading the basic writings of Marx and Engels. Some attention is given to the origins and genesis of Marxism, to its practice, and to contemporary Marxist theorists. This course is approved for General Education – Distribution 1.

**PHIL319 EXISTENTIALISM 3 sem. hrs.**  
This course examines the main themes of contemporary existentialistic thought. Atheistic, agnostic, and theistic existentialists are treated. The course begins with Kierkegaard and Nietzsche and studies, among others, Heidegger, Jaspers, Sartre, Marcel, Camus, and Merleau-Ponty. The phenomenological method is also examined and evaluated.

**PHIL323 INVESTIGATION OF CLAIMS OF THE PARANORMAL 3 sem. hrs.**  
This course is an introduction to the philosophy of science. The course uses the extremely interesting, yet scientifically improbable, claims made in best seller books, such as *Chariots of the Gods* and *Bermuda Triangle*, as well as ESP and related phenomena as examples to focus attention on important topics in the Philosophy of Science. Such topics as science vs. pseudo-science, skepticism vs. dogmatism, fallacies of experimental procedure and how to critically evaluate paranormal claims will be taken up. The student will have an opportunity to critically appraise such claims in a research project.

**PHIL326 TECHNOLOGY AND HUMAN VALUES 3 sem. hrs.**  
This course familiarizes students with the philosophical and value implications of the technological texture of modern life. This course evaluates various philosophical positions with regard to technology and develops such concepts as the technological system, post-industrial technologies, techno-scientific thinking and autonomous technology.

**PHIL327 BEGINNING LOGIC 3 sem. hrs.**  
This non-symbolic logic course emphasizes Aristotelian ('syllogistic') reasoning. It includes the translation of ordinary language sentences into Aristotelian form, the determination of validity through Venn diagrams, and traditional topics such as uses of language, varieties of definition, and varieties of fallacies. This course is approved for General Education – Distribution 1.

**PHIL330 NIETZSCHE 3 sem. hrs.**  
This course examines Nietzsche's philosophy, including his concepts of the last man, overman, eternal recurrence, and will to power. Prerequisite: **PHIL200** or instructor's permission.

**PHIL340 ETHICS 3 sem. hrs.**  
This course, intended as a second course in values, examines the main theoretical issues of ethics and relates them to practical moral problems. It discusses the nature of values and the justification of normative principles through consideration of classical and contemporary moral philosophers. Prerequisite: a 200 level or above philosophy course or permission of the instructor. This course is approved for General Education – Distribution 1. Prerequisites: **PHIL200** or **PHIL240** or Permission of the Instructor.

**PHIL342 IMAGES OF HUMANITY 3 sem. hrs.**  
Human beings understand themselves with the aid of models or paradigms of true humanness. The images which dominated the different periods of history are examined in the philosophical texts in which the images were created. Exposure to different understandings of the human condition provides a technique for making unconscious imagery conscious as well as a basis for critical examination of contemporary imagery. This course is approved for General Education – Distribution 1.

**PHIL344 SOCIAL PHILOSOPHY 3 sem. hrs.**  
This course investigates social philosophy, past and present, in relation to values and ideology. Specific issues include the moral justification for the existence of the state, its authority, the relation of the individual to the state, the scope and limits of political dissent, the principles of just revolution, individual property rights, income distribution and taxes. This course is approved for General Education – Distribution 1.

**PHIL345 PHILOSOPHY OF ART 3 sem. hrs.**  
This course examines central and historical developments in the philosophical analysis of art. It examines theories of art and explores questions such as: the beautiful, creativity, the imagination, and the role of art in life.

**PHIL346 ENVIRONMENTAL ETHICS 3 sem. hrs.**  
This course surveys the development of Ecophilosophy, a branch of philosophy which responds to the emerging understanding of the science of ecology and its implications for humanity. Topics discussed include the philosophical aspects of the Limits-to-Growth debate, the Land Ethic, Animal Rights, Gaia Hypothesis, Ecocentrism vs. Anthropocentrism, Ecofeminism, and Deep Ecology. This course is approved for General Education – Distribution 1.

**PHIL350 PHILOSOPHY OF RELIGION 3 sem. hrs.**  
This course philosophically analyzes argument for and against atheism, agnosticism, theism, and the immortality of the soul. The stance of faith contrast with that of rational argumentation. The classical proofs for God's existence and the immortality of the soul are studied and evaluated.

**PHIL361 ETHICS AND HEALTH 3 sem. hrs.**  
This course is designed not just for persons who plan to work in health-related fields, but for any student interested in understanding in basic concepts and categories of ethics. After the general theories and principles of ethics are understood, applications are made to the health-related issues which are widely discussed in the mass media and given academic attention by scholars in philosophy, religious studies, law, and biology. Prerequisite: **PHIL200**.

**PHIL364 SEXUAL LOVE AND WESTERN MORALITY 3 sem. hrs.**  
The course explores several theories about the nature and meaning of human sexuality which are then applied to the evaluation of sexual acts in both moral and non-moral terms. Several notions of love are examined in relation to the various lifestyles which could claim to be their practice. This course is approved for General Education – Distribution 1.

**PHIL402 MODERN PHILOSOPHY 3 sem. hrs.**  
The major philosophers from Descartes (1600) through Kant (1800) are examined. Metaphysical and epistemological issues are emphasized. This course is approved for General Education – Distribution 1. Prerequisites: **PHIL200** or **PHIL240** or Permission of the Instructor.

**PHIL405 CONTEMPORARY PHILOSOPHY 3 sem. hrs.**  
This course examines some of the most important works of some of the most influential philosophers since 1900. This course is approved for General Education – Distribution 1.

**PHIL410 METAPHYSICS 3 sem. hrs.**  
Metaphysics asks the question: "What exists?" This fundamental area of philosophy includes many of the most basic philosophical issues: the nature of the external world, the mind-body problem, the existence of free will, the existence of God, and the problem of universals. This course will cover one or more of these issues. This course is approved for General Education – Distribution 1. Prerequisites: **PHIL200** or **PHIL240** or Permission of the Instructor.

**PHIL411 THEORY OF KNOWLEDGE 3 sem. hrs.**

This course studies the sources, types, methods, structure, and validity of knowledge. It involves reading and discussion of classical, modern, and contemporary views of meaning, truth, and perception. This course is designed to give an acquaintance with and an appreciation of the scope and limits of knowledge. This course is approved for General Education – Distribution 1. Prerequisites: **PHIL200** or **PHIL240** or Permission of the Instructor.

**PHIL415 CURRENT PROBLEMS IN PHILOSOPHY 3 sem. hrs.**

This course will employ modern philosophical techniques such as linguistic analysis to investigate current philosophical problems. These problems may include, for example, current problems of knowledge, free will, God and the mind-body relation to answer such questions as: Can we have knowledge or are there grounds to doubt everything? Do we have free will or are all our actions determined? Are the mind and brain one and the same or different? Is there or is there not a God?

**PHIL419 PHENOMENOLOGY 3 sem. hrs.**

Phenomenology is more than a mere descriptive method. It aims to perform a philosophical activity by seeking out the ultimate foundations of the totality of human experience. Existence is foundational and integrational and founds, as such, the edifice of knowledge and undercuts the subject-object cleavage of rationalism. The purpose of the course is to assess this contention of phenomenology.

**PHIL420 LOGIC 3 sem. hrs.**

This course in logic demonstrates how to distinguish between valid and invalid reasoning by use of symbols. It covers sentence logic and quantificational (predicate) logic. This course is approved for General Education – Distribution 1. Prerequisites: **PHIL327** or **MATH104** or **MATH110** or Permission of the Instructor.

**PHIL425 PHILOSOPHY OF SCIENCE 3 sem. hrs.**

This course examines the philosophical problems common to the natural sciences, such as the nature of laws and theories, explanation, and verification, and the distinction between science and pseudoscience. It also discusses the character of scientific progress. The course helps students understand the general structure and methods of science, through an examination of the philosophical controversies which surround them. This course is approved for General Education – Distribution 1. Prerequisites: **PHIL200** or **PHIL240** or Permission of the Instructor.

**PHIL440 PHILOSOPHY OF HUMAN ACTION 3 sem. hrs.**

The course has two parts, the first devoted to looking at theories about the right way to describe and explain what people do, the second part to re-examine the nature of human labor, making use of the theoretical tools acquired in the first part of the course.

**PHIL490 INDEPENDENT STUDY 1-6 sem. hrs.**

The Independent Study program aims to serve those students whose scholarly bent seems most clearly adapted to independent work. Students are permitted to solve problems and to earn credit for work performed outside the classroom requirement of any specific course in the curriculum.

**PHIL545 MEDICAL ETHICS 3 sem. hrs.**

After a survey of basic concepts and reigning theories in ethics, students are introduced to the major areas of ethical conflict in contemporary medical practice. Case materials are presented in class and students receive guidance in identifying the controversies and in providing rational support for their solutions. Prerequisite: **PHIL200** or the permission of the instructor.

Graduate courses at the 600 level may be taken by undergraduates for undergraduate credit with permission of the dean of the student's major.

**PHYS101 PHYSICAL SCIENCE 3 sem. hrs.**

This course introduces the classical concepts of physics with an emphasis on the understanding of their application to common phenomena encountered in today's world. This course meets four hours per week including a two hour laboratory. This course is approved for General Education – Core 7.

**PHYS150 PHYSICS ORIENTATION 3 sem. hrs.**

This course introduces the students of physics, engineering, and related areas to the processes involved in problem solving. Students do computational work using calculators and computers.

**PHYS181 PRINCIPLES OF PHYSICS 3 sem. hrs.**

This course is a one-semester course that introduces the basic principles of physics with special emphasis on applications to biological systems, especially appropriate for students in health related fields.

**PHYS201 PHYSICS I 4 sem. hrs.**

This is an introductory course for non-physics majors. The basic principles of physics are emphasized and selected applications are discussed. Topics covered include mechanics, theory of gases, thermodynamics and sound. This course meets five hours per week, three hours of lecture and a two hour laboratory. The student should have a knowledge of elementary algebra and basic trigonometry. This course is approved for General Education – Core 7.

**PHYS202 PHYSICS II 4 sem. hrs.**

This second semester of the introductory physics course for non-physics majors covers topics in electricity and magnetism, light, atomic and nuclear structure. This course includes a two hour lab. Prerequisite: **PHYS201**. This course is approved for General Education – Distribution 3.

**PHYS271 FRONTIERS IN ASTRONOMY 3 sem. hrs.**

The course begins with a foundation in naked eye astronomy, then proceeds to the basic physical laws needed to understand revolutionary modern theories of the solar system, stellar evolution and cosmology, showing how fresh and young the oldest science can be. The course includes 2 hours of lecture and 1 hour of experimental activity including observing sessions, take home exercises and virtual laboratories. This course is designed for non-science majors and is approved for General Education Core 7.

**PHYS301 NATURE OF SOUND 3 sem. hrs.**

This is a basic laboratory course in the science of sound with application to hearing, music and the properties of sound waves. Topics include the physics of vibration, human perception of sound in a room, and sound recording and reproduction. This course is approved for General Education - Distribution 3. Prerequisite: **MATH104**

**PHYS302 THE NATURE OF LIGHT AND COLOR 3 sem. hrs.**

This course is an introductory study of the characteristics and properties of light and color. Principles are developed which have broad relationships to everyday phenomena; e.g., the color of the sky, the mixing of colored lights and pigments, the use of corrective lenses for vision defects, lasers and holography, fluorescent dyes and detergents, etc. This course is designed for a broad spectrum of students with little or no background in science but a strong interest in light and color. This course includes 2 hours of lecture and 2 hours of laboratory weekly. This course is approved for General Education – Distribution 3. Prerequisite: **MATH104**

**PHYS303 THE NATURE OF NUCLEAR ENERGY****3 sem. hrs.**

The course introduces the basic principles underlying the structure and behavior of atoms and nuclei and follows the development of modern nuclear technology and its impact on society. Topics include properties and detection of radiation, uses of radiation in industry and medicine, radioactive dating, radioactive hazards and nuclear power (fission, fusion, and breeders). 2 hours of lecture and 2 hours of lab per week are required. This course is approved for General Education – Distribution 3. Prerequisite: **MATH 104 or higher**.

**PHYS305 CLASSICAL PHYSICS LABORATORY I****2 sem. hrs.**

A laboratory course consisting of intermediate and advanced laboratory experiments in classical physics. The experiments will include the analyses of experimental data and their relationship to the appropriate fundamental theory. The course will cover all areas of classical physics, such as mechanics, electricity and magnetism, heat and thermodynamics and optics. 4 hours of lab. Prerequisite: **PHYS323 or PHYS202** or permission of instructor.

**PHYS311 TECHNICAL ELECTRONICS I****4 sem. hrs.**

This course develops the fundamental concepts of dc and ac circuits, including magnetic effects. Solid state devices and their uses are introduced. Practical circuits and the use of measuring devices are stressed in the exercises. 3 hours lecture, 2 hours lab.

**PHYS312 TECHNICAL ELECTRONICS II****4 sem. hrs.**

A continuation of **PHYS311**, this course introduces the use of active components (diodes, transistors, etc.) and integrated circuits (op amps, etc.) in the design and construction of basic electronic circuits. The course includes a two hour laboratory. Prerequisite: **PHYS323 or PHYS202** or permission of instructor.

**PHYS313 DIGITAL ELECTRONICS****3 sem. hrs.**

This course develops the principles of digital logic and arithmetic, and the electronic implementation of these principles. Combinational and sequential logic techniques such as Boolean algebra and Karnaugh mapping are introduced. Discrete digital gates as well as MSI circuits are used in circuit design. This course includes a laboratory. This course is approved for General Education – Distribution 3.

**PHYS314 ELECTRONIC TROUBLESHOOTING****3 sem. hrs.**

This course outlines the basic techniques used to troubleshoot electronic circuits. Concepts such as equipment specifications, reliability,

and component characteristics are introduced. Use of test equipment is developed, and standard methods of troubleshooting are explored. Attention is given to techniques applicable to linear, digital, and power circuits. The basic principles of system maintenance and troubleshooting are also introduced. Prerequisite: a previous course in electronics. 2 hours lecture, 2 hours lab.

**PHYS315 INTRODUCTION TO MICROPROCESSORS****3 sem. hrs.**

This course introduces the student to the microprocessor, microprocessor systems, programming, and interfacing. Since no prior knowledge of digital electronics is assumed, a brief introduction is given to binary arithmetic, experiments on programming and interfacing. Prerequisite: a knowledge of basic electricity and electronics. 2 hours lecture, 2 hours lab. This course is approved for General Education – Distribution 3.

**PHYS316 CIRCUITS ANALYSIS****3 sem. hrs.**

This course stresses theorems and techniques necessary to analyze circuit responses, steady state and transient behavior, power and power factor corrections, resonance phenomena, networks, and polyphase circuits. Prerequisite: **MATH211** or its equivalent.

**PHYS320 UNIVERSITY PHYSICS 1****4 sem. hrs.**

This course is the first course in a two-semester sequence of calculus-based physics. **PHYS 320** is an analytical study of classical mechanics, waves, and thermodynamics. Prerequisites: **PHYS150** or permission, and concurrent enrollment in **MATH211**. This course is approved for General Education – Distribution 3.

**PHYS321 UNIVERSITY PHYSICS II****4 sem. hrs.**

This course is the second course in a two-semester sequence and examines the fundamentals of electricity and magnetism and their theoretical interpretation. It includes Maxwell's equations, electromagnetic waves and physical optics. Prerequisites: **PHYS 320** or permission and concurrent enrollment in **MATH 212**. This course is approved for General Education - Distribution 3.

**PHYS322 PHYSICAL MEASUREMENTS LABORATORY I****1 sem. hr.**

This laboratory course, designed for physics, engineering and science majors, studies methods and techniques of experimental research through selected physics experiments. Students interface computers for data collection, computation, and the various

form of analysis, and use microcomputers and software and the university's mainframe computer to analyze, graphically display, and discuss experimental results. Prerequisite: concurrent enrollment in **PHYS320**, or by permission of the instructor.

**PHYS323 PHYSICAL MEASUREMENTS II****1 sem. hr.**

This course continues Physical Measurements Laboratory I, **PHYS322**. Prerequisites: **PHYS322** and concurrent enrollment in **PHYS321**, or permission.

**PHYS325 INTRODUCTION TO MODERN PHYSICS****3 sem. hrs.**

This course surveys at the intermediate level the origin, development and present status of the important concepts of modern physics. It presents the theoretical development of the concepts with their classical historical features to provide a perspective on the growth and present trends in physics. Prerequisite: **PHYS321**, or by permission of the instructor. This course is approved for General Education – Distribution 3.

**PHYS371 THE SOLAR SYSTEM****3 sem. hrs.**

This course is designed for all curricula. An in-depth study of the solar system and its component parts; the sun, the moon, the planets, the interplanetary medium and aspects of space science, will be the main contents of the course. Prerequisite: **PHYS271** or consent of instructor. This course is approved for General Education – Distribution 3.

**PHYS404 PHYSICS LABORATORY FOR TEACHERS****2 sem. hrs.**

A study of laboratory procedures and techniques used in secondary schools. Equipment, safety procedures, demonstrations, and tactics of innovation are discussed and investigated to enable the student to develop competencies in the efficient utilization of the laboratory. Prerequisite: 12 sem. hrs. of physics, or by permission of the instructor.

**PHYS405 MODERN PHYSICS LABORATORY I****2 sem. hrs.**

A laboratory course consisting of intermediate and advanced laboratory experiments in modern physics. The experiments will include the analyses of experimental data and their relationship to the appropriate fundamental theory and will cover all areas of modern physics, such as atomic, nuclear and solid state physics. Prerequisite or co-requisite: **PHYS325**. 4 hours lab per week.

**PHYS410 OPTICS 3 sem. hrs.**

An intermediate study of geometrical and physical optics. Topics in geometrical optics will include the nature of light, reflection, refraction, dispersion, thick lenses, aberrations and the design of optical systems. Topics in physical optics will include wave theory of light, diffraction, interference, and polarization. Prerequisite: **PHYS321**, or by permission of the instructor.

**PHYS420 MECHANICS I 3 sem. hrs.**

A study of classical mechanics on an intermediate level. Topics covered: Lagrange's equations, the central force problem, the dynamics of a system of particles, the motion of rigid bodies and Hamilton's equations and the dynamics of oscillating systems. Prerequisites: **PHYS325** and **MATH311** or permission of the instructor. Corequisite: **MATH317**.

**PHYS421 MECHANICS II 3 sem. hrs.**  
A continuation of **PHYS420**.**PHYS430 ELECTRICITY AND MAGNETISM I 3 sem. hrs.**

This course studies the mathematical theories of electricity and magnetism at an intermediate level. It develops Maxwell's equations and uses them extensively. Prerequisite: **PHYS325** and concurrent enrollment in **MATH317**, Differential Equations, or by permission of the instructor.

**PHYS431 ELECTRICITY AND MAGNETISM II 3 sem. hrs.**

A continuation of **PHYS430**.

**PHYS441 THERMAL PHYSICS 3 sem. hrs.**

A study at the intermediate level of physical phenomena that depend on temperature. Topics will include the three laws of thermodynamics, thermodynamic potentials, equations of state and various applications to simple and multi-component systems. Prerequisites: the introductory physics sequence **PHYS325** and **MATH311** or by permission of instructor.

**PHYS449 MATHEMATICAL METHODS IN PHYSICS 3 sem. hrs.**

This course studies the application of various mathematical techniques to advanced problems in physics. Topics may include, but are not limited to, functions of a complex variable, the calculus of residues, integral transforms and the special functions of mathematical physics. Prerequisites: **PHYS325** and **MATH317** or permission of instructor

**PHYS453 QUANTUM PHYSICS 3 sem. hrs.**

An introduction to the basic postulates of non-relativistic quantum mechanics. The Schrodinger equation and its physical interpretation will be investigated. The representation of physical quantities by mathematical operators will be introduced and applied to a limited number of exactly solvable problems. Approximation methods will be developed for dealing with time independent problems. Prerequisites: **PHYS325** and **MATH317**.

**PHYS471 RELATIVITY, BLACK HOLES, AND COSMOLOGY 3 sem. hrs.**

This course is designed for all curricula. The topics covered are divided into five parts: Special Relativity, Black Holes, Galaxies and Quasars, and Cosmology. The course will emphasize some of the central apparent paradoxes of relativity and how their descriptive understanding applies to phenomena and topics such as black holes and cosmology. Prerequisite: **PHYS271** or permission of the instructor. This course is approved for General Education – Distribution 3.

**PHYS472 THE SUN 3 sem. hrs.**

This course is designed for all curricula. It is an in-depth study with observational and computational laboratory of the sun and the solar atmosphere. The photosphere, chromosphere, Corona and solar spectrum will be the main topics covered. Solar-Terrestrial relationships will be dealt with in each of the topics indicated above. Prerequisite: **PHYS271** or equivalent, and **PHYS201** or equivalent. This course is approved for General Education – Distribution 3.

**PHYS490 INDEPENDENT STUDY IN -493 PHYSICS 2-5 sem. hrs.**

The Independent Study program aims to serve those students whose scholarly bent seems most clearly adapted to independent work. Students are permitted to resolve problems and to earn credit for work performed outside the classroom requirement of any specific course in the curriculum.

**PHYS496 INTERNSHIP IN PHYSICS -497 2-5 sem. hrs.****PHYS550 THE BIRTH OF MODERN SCIENCE 3 sem. hrs.**

This course, to be taught in Oxford, England, uses an historical perspective to examine the development of those concepts now considered central to science. It stresses the interrelated nature of the sciences and considers topics from physics, astronomy, chemistry, biology and geology.

**PLSH100 INTRODUCTION TO POLISH CULTURE 3 sem. hrs.**

This introductory course provides an overview of the culture, art, history and social mores of the Poles. Taught entirely in English, PLSH100 focuses upon the most important aspects of Poland and the Polish people. Appropriate films, readings, guest speakers, and discussions supplement the lectures. This course is approved for General Education – Core 5.

**POLI100 INTRODUCTION TO POLITICS 3 sem. hrs.**

This course introduces students to politics and its effect within and across societies. Topics include, among others, basic concepts in politics; the components, varieties, and dynamics of political systems; and major political ideas and values. Students also discuss approaches to analyzing politics. This course is approved for General Education Core 2, World Civilizations.

**POLI101 INTRODUCTION TO AMERICAN POLITICS 3 sem. hrs.**

This course is a comprehensive introduction to American politics and the American political system. This course is approved for General Education Core 3, American Civilizations.

**POLI102 INTRODUCTION TO COMPARATIVE POLITICS 3 sem. hrs.**

The course introduces students to the components, features, and dynamics of major political systems. In addition to examining the general features of all systems, student will examine several examples of different types of political systems. Students also discuss basic concepts in politics and approaches to analyzing politics, with a focus on the comparative method. This course is approved for General Education Core 2, World Civilizations.

**POLI103 INTRODUCTION TO GLOBAL POLITICS 3 sem. hrs.**

This course explores fundamental terms and concepts in global politics and approaches to understanding relations among states and peoples of the world. Students examine the foundations of order in international society, the making of foreign policy, and instruments of that policy used by nation-states and non-state actors. Topics include the nature of power, wealth, and poverty, conflict and cooperation, human rights, cultural differences affecting global relations, nationalism, and development of international institutions. This course is approved for General Education Core 2, World Civilizations.

**POLI204 INTRODUCTION TO WOMEN'S STUDIES****3 sem. hrs.**

This interdisciplinary course introduces students to the theories and research pertaining to women's experiences and women's status in contemporary society.

**POLI300 METHODS OF POLITICAL ANALYSIS****3 sem. hrs.**

In this course, students explore various methods for empirically analyzing politics. Topics include major concepts in political analysis, different approaches to political analysis, and the features and challenges of research design. Prerequisites: **POLI100**; **MATH260**; either **POLI101**, **POLI102**, or **POLI103**; or permission of instructor.

**POLI302 URBAN COMMUNITY LEADERSHIP****3 sem. hrs.**

This examines the concepts of community leadership in relation to the problems facing the urban community and how these problems affect the surrounding community area. It looks at the political decision-making process in relation to governing the urban area and the impact of this process on the surrounding community area. It looks at various groups that have an impact on the decision process and examines the response of leaders to these groups, their problems, and proposed solutions. Prerequisite: **POLI100** or **POLI101** or permission of the instructor.

**POLI303 CURRENT ISSUES IN GLOBAL POLITICS****3 sem. hrs.**

In this course, students will examine significant global political events that take place during the semester. These may include, for example, elections, regime change, terrorism, international negotiations and conflict, economic turbulence, political response to disease or disaster, human rights issues, crime, and environmental issues. Students will analyze the underlying national, regional, and global causes of these events using appropriate theories from **POLI103**, Introduction to Global Politics. Prerequisites: **POLI103** and **ENGL102**, or permission of instructor.

**POLI305 POLITICS AND THE ENVIRONMENT****3 sem. hrs.**

A presentation of the problems of today's environment in the terms of the political, administrative, and legal institutions and pressures which surround it are involved. This course is not scientific or technical, but one which will orient students of ecology and environmental scientific problems to understand the solution areas where these questions are ultimately handled in present day society. Questions of air, water, noise, solid waste, thermal and sewage pollution will be

considered in the political and governmental setting, with emphasis on the policy process and system. No prerequisites.

**POLI306 PUBLIC ADMINISTRATION I AND II****each 3 sem. hrs.**

Theory, functions, organization, problems and procedures in the public administration, essentials of responsibility and fiscal accountability, planning and organization concepts, interested groups in administration, the formulation of administrative policy. A one-year course designed for students interested in administration and government service. Prerequisite: **POLI100** or **POLI101** or permission of the instructor).

**POLI310 FEDERALISM AND INTERGOVERNMENTAL RELATIONS****3 sem. hrs.**

Development of the origin, nature, and structure of the American federal system with emphasis on theoretical aspects of that government; examines the workings of American federalism as they exist between the various levels of government. Prerequisite: **POLI200** or **POLI101** or permission of the instructor.

**POLI311 POLITICAL FREEDOM AND INDIVIDUAL RIGHTS****3 sem. hrs.**

This honors course uses both traditional constitutional analysis and philosophical inquiry to analyze values underlying substantive rights guaranteed by the First and Fourteenth Amendments: freedom of speech, press, petition, assembly, religion, and freedom from discrimination. It also assesses critically the relative "costs" of beliefs, attitudes and ideals in constitutional law and in our entire social/legal system.

**POLI315 AMERICAN STATE AND LOCAL GOVERNMENT****3 sem. hrs.**

This course explains the organization and function of government on the state and local levels with a focus on managing societal conflicts. Topics include Pennsylvania government and the politics of crime, education, welfare, and taxation policies. This course is approved for General Education – Distribution 2.

**POLI320 AMERICAN POLITICAL PARTIES AND POLITICAL BEHAVIOR****3 sem. hrs.**

The nature, functions, and structure of political parties in the American federal system; special attention to the growth of the two-party system; problems of organized group pressure and its effect on the political system; problems of leadership, internal organization and membership loyalties. Prerequisite: **POLI100** or **POLI101** or permission of the instructor.

**POLI322 PUBLIC OPINION, INTEREST GROUPS, AND PROPAGANDA****3 sem. hrs.**

This course introduces students to the nature and importance of public opinion and interest groups' activities in American politics. It examines the formation, roles, and influences of public opinion and interest groups in the U.S., the roles of public opinion polling and the mass media in communicating the public's opinions, and the impact of public opinion and interest groups' activities on American public policy. In addition, it examines the linkage between public opinion and interest groups' activities and attempts to influence public policy. Prerequisite: **POLI101**. This course is approved for General Education – Distribution 2.

**POLI328 THE LEGISLATIVE PROCESS****3 sem. hrs.**

The historical, normative, legal and behavioral aspects of legislative institutions and processes of the national and state legislature; role orientation of legislators, as well as political parties; interest groups; the executive branch, judicial branch and government agencies will receive special emphases in relation to their impact upon American legislative systems. Prerequisite: **POLI100** or **POLI101** or permission of the instructor.

**POLI329 CUBA-UNITED STATES RELATIONS****3 sem. hrs.**

This course studies the relationship between Cuba and the United States since 1898. It also examines the influences of race, class, gender, and politics, paying particular attention to the effect of globalization on Cuban-U.S. relations.

**POLI330 INDEPENDENT REGULATORY AGENCIES: THE BUREAUCRACY IN OPERATION****3 sem. hrs.**

The development of government agencies as constituting an important arm of the government; organization, nature and procedures of the various departments, boards and commissions and the role they play in the political process, pressure group activity and its effect on agency operations. Prerequisite: **POLI100** or **POLI101** or permission of the instructor.

**POLI335 AMERICAN PRESIDENCY****3 sem. hrs.**

This course introduces the student to the major roles and functions of the president with emphasis on the origins, development, and evolution of the presidential office and powers and an evaluation of the presidency in the final quarter of the 20th century. Prerequisite: **POLI101**. This course is approved for General Education – Distribution 2



**POLI340 GOVERNMENTS OF WESTERN EUROPE****3 sem. hrs.**

Study of ideology, political institutions, decisionmaking processes and power structures of Great Britain, France, and the German Federal Republic. Prerequisite: **POLI100** or **POLI102**.

**POLI341 GOVERNMENT AND POLITICS OF LATIN AMERICA****3 sem. hrs.**

This course examines the structure and function of the various governmental systems of Latin America, the political and social forces operating within the countries that bear directly on governmental action and policy, the trend toward democratization and civilian government, and the social and political impact of the external debt. The study includes Central America, South America, and the Caribbean island-nations. Prerequisites: **POLI100** or **POLI102**. This course is approved for General Education – Distribution 2.

**POLI342 GOVERNMENT AND POLITICS OF RUSSIA AND FORMER SOVIET REPUBLICS****3 sem. hrs.**

This course examines the political heritage of Russia and other former Soviet republics, covering the social, political and economic changes brought about by the 1917 Russian revolution and the 1991 Soviet revolution, and the transition from the communist to the present period. It examines and contrasts the policies under Mikhail Gorbachev and Boris Yeltsin with an emphasis on the social changes and dislocations brought about by the post-communist period.

**POLI343 LAW AND LEGAL SYSTEMS****3 sem. hrs.**

This course is a comprehensive introduction to law and legal systems. Students will focus on the American legal system but understanding will be enhanced by frequent comparative analysis. Topics discussed include the concept of law; types of law; legal traditions; the legal process; legal analysis; judicial decision-making; and the structure and behavior of the major components of legal systems including courts, lawyers, judges, and agents of legal mobilization. Students will also learn basic legal research skills. Prerequisite: **POLI101** or permission of the instructor. This course is approved for General Education Distribution 2.

**POLI345 POLITICAL SYSTEMS OF THE FAR EAST****3 sem. hrs.**

This course examines the political traditions and developments of China, Japan, Korea, Thailand, Malaysia, and the lands to the south of China, together with the nature, organization,

and functions of their governments. It includes the origin and development of the Communist regime on the China mainland, and emphasizes the differing approaches to the governing of man and the formation of public policy. This course is approved for General Education – Distribution 2.

**POLI346 GOVERNMENT AND POLITICS OF CANADA****3 sem. hrs.**

Structure, function and powers of the Provincial and Federal governments of Canada; comparative aspects of public policy decision making; historical background of Canadian political institutions. Prerequisite: **POLI100** or **POLI102**.

**POLI349 POLITICS OF DEFENSE AND NATIONAL SECURITY****3 sem. hrs.**

This course examines U.S. national security politics and policy, with emphasis on the global issues and domestic influences that shape U.S. policy. Topics include the global context of U.S. defense, American primacy and grand strategy, the role of force, political economy of defense, the bureaucratic process, and strategic theory. Prerequisite: **POLI 100** or **POLI 101** or **POLI 103**, or permission of the instructor.

**POLI350 TERRORISM AND POLITICAL VIOLENCE****3 sem. hrs.**

This course examines terrorism and political violence in the global and American contexts. Emphasis is given to understanding events; theories of causation and motivation; and the political consequences of counterterrorism policy for individual states and the international system. The course will look at various groups that employ terror tactics and discuss their influences, rationales, and global connections, and will examine the response of states and the international community. Prerequisite: **POLI102** or **POLI103** or permission of the instructor.

**POLI351 AMERICAN FOREIGN POLICY****3 sem. hrs.**

This course examines the formation and implementation of United States foreign policy. It emphasizes the institutions and actors involved in the policymaking process, and critically examines key issue areas that dominate the current policy agenda. Topics include various theoretical approaches to understanding the sources, goals, and tools of American policy, in both historical and contemporary contexts. Prerequisites: **POLI101**, **POLI103**, and **ENGL102**, or permission of the instructor. This course is approved for General Education – Distribution 2.

**POLI370 POLITICAL THOUGHT I****3 sem. hrs.**

This course introduces the student to the great classical political thinkers and their ideas about order, freedom, justice, history and political institutions. It emphasizes problem solving skills, reasoning and logic with special attention paid to the various theories of politics as a part of politics itself. This course is approved for General Education – Distribution 2.

**POLI372 DEVELOPMENT OF POLITICAL THOUGHT II****1-6 sem. hrs.**

This course is concerned with the political theories usually called “modern”. Theories of the emerging sovereign and national state, plus theories of liberty and the individual thought and including the twentieth century are covered.

**POLI 375 REPRODUCTIVE POLITICS****3 sem. hrs.**

This course explores the law and politics of human reproduction, including controversies over contraception, abortion, sex education, and population control. Prerequisites: **POLI 101** or **WMST 204**, or permission of the instructor.

**POLI395 INTERNSHIP IN POLITICAL SCIENCE****1-15 sem. hrs.****POLI397 TOPICS IN POLITICAL SCIENCE****1-3 sem. hrs.****POLI409 ADMINISTRATIVE LAW****3 sem. hrs.**

This course is an examination of the structure, rules, and dynamics of American administrative law. The course focuses on the federal bureaucracy, its methods of rule making and rule enforcement, and presidential, congressional, and judicial oversight of bureaucratic agencies. Prerequisite: **POLI101** and **POLI306** or **POLI307**, and **POLI343** or permission of instructor.

**POLI463 CIVIL LIBERTIES****3 sem. hrs.**

In this course students analyze American constitutional law regarding individual and group freedoms. Topics include but are not limited to freedom of expression, free exercise of religion, separation of church and state, substantive due process, reproductive rights, sexual freedom, equal protection of the law, theories of constitutional interpretation, and the dynamics of Supreme Court decision-making. Prerequisite: **POLI101** or permission of the instructor. This course is approved for General Education Distribution 2.

**POLI465 CONSTITUTIONAL LAW**  
**3 sem. hrs.**

In this course students analyze American constitutional law, with a focus on the scope and distribution of congressional, presidential, judicial, and state government power. Topics include but are not limited to congressional authority to regulate the economy, presidential power in foreign and domestic policy, separation of powers issues, the distribution of federal and state power, the scope of judicial review, theories of constitutional interpretation, and the dynamics of Supreme Court decision-making. Prerequisite: **POLI101** or permission of instructor. This course is approved for General Education Distribution 2.

**POLI469 CRIMINAL PROCEDURE AND EVIDENCE**  
**3 sem. hrs.**

This course introduces a detailed and inclusive study and analysis of rules and principles of criminal procedure and evidence. It teaches students to recognize protected constitutional rights of the accused, to understand proper collection of evidence, the basic rules of admissibility of evidence, and the historical development of rules of criminal procedure. Prerequisite: **CRIM100** or **POLI343** or permission of the instructor.

**POLI490 INDEPENDENT STUDY**  
**1-6 sem. hrs.****POLI507 SEMINAR IN POLITICAL SCIENCE**  
**3 sem. hrs.**

This seminar examines politics in the four areas: public administration, international relations/comparative government, political theory or American government and politics. Within these four, the area of emphasis will be at the discretion of the faculty member teaching the course. Prerequisites: **POLI100** and **POLI101**.

**POLI508 PUBLIC FINANCE**  
**3 sem. hrs.**

This course consists of the study of the public economy at the national, state, and local levels. It will analyze the role of government in attaining an efficient allocation of resources and an equitable distribution of income. Topics will include taxation, government expenditure, public debt, pricing of government services, international fiscal relations, and the role of government in a market economy. Prerequisite: **ECON225**.

**POLI510 HEALTH CARE POLITICS AND POLICY**  
**3 sem. hrs.**

Health Care Politics and Policy will analyze those factors in the political process that influence policy information and decision-making in the American Health Care System. The course will also analyze health care policy with respect to its impact on beneficiaries both in terms of health and non-health goals. This course is approved for General Education – Distribution 2.

**POLI511 PUBLIC PERSONNEL ADMINISTRATION**  
**3 sem. hrs.**

This course introduces students to the processes involved in structuring a contemporary personnel system within the context of the public service. These processes also have application in business and industry. This course studies career systems, recruitment, wage and salary criteria, evaluation, staffing, discipline and classification. Additionally, the course considers applicable statutes, collective bargaining, affirmative action plans and workforce diversity. It emphasizes the functions of public personnel managers and administrators in providing public services in an efficient manner.

**POLI512 PUBLIC EMPLOYEE UNIONISM**  
**3 sem. hrs.**

This course examines those features of public employee unionism which are of greatest importance to the present day public administration including the establishment of the management-union relationship, the bargaining process, impasse resolution, the contract and grievance procedure. Special attention is given to the question of the compatibility of unionism and the merit concept. Prerequisite: **POLI101** or **POLI306** or permission of the instructor.

**POLI544 POLITICAL SYSTEMS OF THE NEW NATION-STATES AND DEVELOPING AREAS**  
**3 sem. hrs.**

This course studies the theories of political modernization and comparative politics, the concept of political development, political culture and political socialization in developing societies; sociological and economic aspects of political modernization; the politics of the developing nations, articulation and aggregation of interests; the governmental and representative process; the role of the military in developing nations. Prerequisite: **POLI200**. This course is approved for General Education – Distribution 2.

**POLI547 GOVERNMENT AND POLITICS IN THE MIDDLE EAST**  
**3 sem. hrs.**

An analysis of the transformation of middle eastern society from Morocco to Iran as case studies in political modernization; special reference to causes and character of modernization; role of leadership ideologies and institutions. Prerequisite: **POLI100** or **POLI102** or permission of the instructor.

**POLI548 UNITED STATES-LATIN AMERICAN RELATIONS: CONTEMPORARY PROBLEMS**  
**3 sem. hrs.**

This course studies the contemporary problems affecting United States-Latin American relations, including those arising from Latin American countries exerting an independent political course while the United States struggles to preserve its long-held hegemonic influence in the hemisphere. It examines the Ibero-American summits, international trade agreements such as NAFTA and other regional arrangements, drug production/smuggling and Washington's certification policy, and other central issues. This course is approved for General Education – Distribution 2.

**POLI550 INTERNATIONAL LAW AND ORGANIZATIONS**  
**3 sem. hrs.**

This course analyzes the legal and political foundations of the international community, and the relevance of legal norms to contemporary international relations. It examines the legal relationships of the United Nations and selected regional organizations. Prerequisite: **POLI103** or permission of the instructor. This course is approved for General Education – Distribution 2.

**POLI560 JURISPRUDENCE**  
**3 sem. hrs.**

This course examines legal thought of classical and modern thinkers such as Plato, Aristotle, Aquinas, Rousseau, Locke, Bentham, Holmes, Pound, Frank, Ross, Hart, Dworkin, and others. It includes contemporary materials in law and legal research from several disciplines. Prerequisite: **POLI101** or permission of the instructor.

**POLI567 THE POLITICS OF CRIME**  
**3 sem. hrs.**

The Politics of Crime takes a system approach to raise questions regarding the relationship between the political process and criminal behavior as well as other factors in the criminal justice system. The course specifically focuses on criminal law as an important variable operating within a political context, the administration of criminal justice, decision-making at all levels, and value conflicts inherent in the allocation of resources for the operation of the criminal justice system.

**POLI573 CONTEMPORARY POLITICAL THEORY**  
**3 sem. hrs.**

Political philosophy and contemporary theory in the discipline, science and values, concepts of normative and empirical theory in a science of politics; inductive and deductive theories; the behavioral approach and its current meaning and limitations in political theory; systems; game; communications and political development theories. Prerequisites: **POLI100** and **POLI101** or permission of the instructor.

**POLI574 AMERICAN POLITICAL THOUGHT 3 sem. hrs.**

Evolution of American political ideas and thought from Colonial times to the present, covering such theorists as Williams, Paine, Madison, Jefferson, Marshall, Thoreau, George and Veblen among others. Prerequisite: **POLI100** or permission of the instructor. This course is approved for General Education – Distribution 2.

**PR265 INTRO TO PUBLIC RELATIONS 3 sem. hrs.**

This course provides both a practical and theoretical introduction to the field of public relations. The emphasis is on applying the principles of public relations in the areas of commerce, government, institutions, finance, industry, and media. Students participate in various simulated public relations activities. This course is approved for General Education - Distribution 1.

**PR360 WRITING FOR PUBLIC RELATIONS 3 sem. hrs.**

An exploration of the field currently defined as the deliberate, planned, and sustained effort to establish and maintain mutual understandings between any organization and its publics. The student will produce writings using controlled problems. Prerequisites: ENGL101 and ENGL102 or permission of the instructor.

**PR390 WRITING FOR ADVERTISING 3 sem. hrs.**

An introduction to the basic techniques and skills used in writing advertisements for print and non-print media. Prerequisites: ENGL101 and ENGL102 or permission of the instructor.

**PR425 PUBLIC RELATIONS PROGRAM DESIGN 3 sem. hrs.**

This course provides experience in managerial aspects of public relations through the use of planning models to design public relations programs. Students gain additional experience by applying public relations principles and procedures to actual case studies. Prerequisite: PR265.

**PR540/ PR640 PUBLIC RELATIONS MANAGEMENT 3 sem. hrs.**

This course provides in-depth study of how organizations manage media, consumer, government, investor, employee, and community relations. It focuses on successful program development through the knowledge and application of public relations management principles and communication techniques. Prerequisite: PR425 or Permission of Instructor, Graduate status for 600 level enrollment.

**PSYC101 INTRODUCTION TO PSYCHOLOGY 3 sem. hrs.**

This course introduces the methods, theories,

and key findings from the scientific study of behavior and mental processes. This course is approved for General Education Core 4 – Human Behavior.

**PSYC110 CRITICAL THINKING IN PSYCHOLOGY 3 sem. hrs.**

This introductory course uses basic concepts from psychology to challenge students to become more thoughtful when analyzing statements and opinions about human behavior. Students examine popular misconceptions and current issues relevant to psychology.

**PSYC225 PSYCHOLOGICAL STATISTICS 3 sem. hrs.**

An introduction to the basic concepts and applications of statistics in the behavioral science with emphasis on the analysis and interpretation of experimental data. Topics include measures of central tendency and variation; probability and normal distribution; correlation; estimation; tests of significance; simple analysis of variance. Linked to PSYC226 which must be taken concurrently. Prerequisites: **PSYC101** and **MATH104** or higher math course with a “C” or better.

**PSYC226 PSYCHOLOGICAL STATISTICS DISCUSSION 1 sem. hr.**

An introduction to the basic concepts and applications of computer statistical packages in the behavioral sciences with emphasis on the analysis and interpretation of experimental data. Topics include, introduction to computer statistical packages, setting up data files, data entry and checking, running statistical analyses, interpretation of outputs, and generating graphical representation of data. In addition, computer statistical packages will be taught. Linked to **PSYC225** which must be taken **concurrently**. Prerequisites: **PSYC101** and **MATH104** with a “C” or better.

**PSYC227 EXPERIMENTAL PSYCHOLOGY 3 sem. hrs.**

This course introduces research methods in psychology. It covers all aspects of the research process, including the formulation of research hypothesis, the mechanics of running experiments, statistical analysis, and the preparation of research reports using computers. It also focuses on basic between and within experimental designs and factorial designs. Prerequisite: **PSYC225** and **ENGL 102** (or equivalent) with a “C” grade or better. This course is approved for General Education - Computer Competency.

**PSYC300 LEARNING THEORY AND APPLICATION 3 sem. hrs.**

This course presents the major theories of learning including associationist, cognitive, and physiological theories. The experimental bases for different theoretical claims will be

examined and the application of principles of learning to different areas of behavior will also be discussed. Prerequisite: PSYC101.

**PSYC301 PSYCHOLOGY OF ADJUSTMENT 3 sem. hrs.**

This course focuses on the psychological processes through which people manage or cope with the demands and challenges of everyday life. Emphasis is placed on stress and its effects, coping processes, and the impact of intimate relationships on psychological well-being. Prerequisite PSYC101. This course is approved for General Education-Distribution 2.

**PSYC305 CLOSE RELATIONSHIPS AND HUMAN SEXUALITY 3 sem. hrs.**

This course provides an overview of current theory and research in the fields of intimate relationships and human sexuality. Emphasis is placed on the importance of psychological theory in understanding relationships and sexual behavior while recognizing the wide range of influences (i.e., communication, culture, biological & evolutionary processes) on these topics. Prerequisite: PSYC 101. This course is approved for General Education-Distribution 2.

**PSYC317 DEVELOPMENTAL PSYCHOLOGY 3 sem. hrs.**

This course describes and synthesizes the current knowledge about the psychological development of children which includes cognitive, emotional, and social developmental factors from conception through adolescence. Prerequisite: **PSYC101**. This course is approved for General Education – Distribution 2.

**PSYC319 PSYCHOLOGY OF ADULTHOOD AND AGING 3 sem. hrs.**

This course examines the psychological ramifications of the continuing life processes that occur during early, middle and late adulthood. Several theoretical frameworks for understanding adulthood and aging, as well as the strengths and weaknesses of developmental research, will be reviewed. The aging process is presented as a continuation of the lifecycle as opposed to an end stage. Prerequisite: **PSYC101**. This course is approved for General Education – Distribution 2.

**PSYC325 PSYCHOLOGY OF CREATIVITY 3 sem. hrs.**

This course introduces psychological theories and research focusing on creativity. It includes scientific techniques used to measure creativity, as well as practical applications of research findings. The course includes everyday and exceptional creativity, and arts and non-arts examples. Prerequisites: PSYC101. This course is approved for General Education - Distribution 2.

**PSYC330 SPORT PSYCHOLOGY**  
**3 sem. hrs.**

This course provides students with an introduction to sport and exercise psychology emphasizing applied areas of research and practice. Students will study definitions, concepts and theories related to sport and exercise psychology, and will practice applying sport and exercise psychology concepts. Prerequisite: PSYC 101. This course is approved for General Education-Distribution 2.

**PSYC332 HEALTH PSYCHOLOGY**  
**3 sem. hrs.**

This course examines the psychological factors that help individuals develop and maintain healthy behaviors and that affect the course and treatment of illnesses. Contemporary research strategies used to understand health promotion, disease prevention, and management of illness are reviewed. Prerequisite: **PSYC101**

**PSYC350 DRUGS AND HUMAN BEHAVIOR**  
**3 sem. hrs.**

This course covers the psychological, behavioral, and clinical effects of drugs including stimulants, hallucinogens, narcotics, and other recreational drugs, as well as drug therapy for mental disorders. Students learn the history of drug development and regulation, and the societal, psychological, biological, and health impact of drug taking. Prerequisite: PSYC101. This course is approved for General Education - Distribution 2.

**PSYC355 PSYCHOLOGY AND LAW**  
**3 sem. hrs.**

This course covers the role of psychology in criminal investigations, trials, and in corrections. Eyewitness testimony, polygraphs, competency, assessment of dangerousness, and other related topics will be explored. A general overview of the field and of current problems and procedures will be presented, including discussions of ethical issues raised when psychologists are involved in the legal system. Prerequisite: PSYC101. This course is approved for General Education-Distribution 2.

**PSYC360 INDUSTRIAL-ORGANIZATIONAL PSYCHOLOGY**  
**3 sem. hrs.**

The course focuses on the study of both the structure of organizations and the personnel within those organizations. Industrial-organizational psychology examines a variety of issues including the dynamics of leadership, the selection, training, and advancement of individuals; the measurement of attitudes and motivation of workers; group processes; human factors engineering and safety; and industrial clinical psychology. Prerequisite: **PSYC101**. (Students with credits earned in PS470 may not take this course).

**PSYC365 ABNORMAL PSYCHOLOGY**  
**3 sem. hrs.**

This course covers the major psychiatric and psychological disorders, including mood disorders, anxiety disorders, and schizophrenia. It focuses on the causes, experience, models, and treatment of disorders as well as ethical, legal and societal issues. Prerequisites: **PSYC 101**.

**PSYC370 PSYCHOLOGY OF PERSONALITY**  
**3 sem. hrs.**

This class provides an overview of the major psychological theories of personality. Students will review the major concepts associated with each theory, and how each theory describes and explains personality development. Students will also compare and contrast different theories, and practice applying theories to specific examples. Prerequisite: PSYC 101. This course is approved for General Education - Distribution 2.

**PSYC373 INTRODUCTION TO CLINICAL METHODS**  
**3 sem. hrs.**

This course presents the major clinical strategies used by the professional psychologist in human service settings. It emphasizes the theoretical and applied aspects of current and emerging psychotherapy systems. Prerequisite: **PSYC101**.

**PSYC375 INTRODUCTION TO PSYCHOLOGICAL ASSESSMENT**  
**3 sem. hrs.**

This course addresses both the theory and practice of psychological assessment. Fundamental psychometric principles will be emphasized, along with applied uses of testing, such as intellectual assessment, and objective and projective personality testing. Prerequisites: "C" or better in both **PSYC 101 and PSYC 225**.

**PSYC377 PSYCHOLOGY OF THE FAMILY**  
**3 sem. hrs.**

Students will develop an in-depth understanding of events and factors that impact family processes. Family issues will be conceptualized from a variety of family adaptation approaches, family stress models, and clinical considerations. Emphasis will be placed on events and transitions that present challenges for families. Prerequisites: **PSYC317 or PSYC319**.

**PSYC380 LAB IN ANIMAL LEARNING**  
**3 sem. hrs.**

This course introduces students to experimental methods used to investigate both associative learning processes (Pavlovian conditioning and instrumental learning) and cognitive processes (e.g., memory, spatial learning) in animals. Students will complete a

series of lab exercises which are designed to illustrate learning principles using albino rats as subjects. Prerequisites: "C" or better in both **PSYC227 and PSYC300**.

**PSYC385 INTRODUCTION TO PROFESSIONAL PSYCHOLOGY**  
**3 sem. hrs.**

This course emphasizes fundamental helping skills used in a wide variety of human service settings. Students will also be informed about current ethical and legal issues, as well as high-risk situations involving suicidal behavior, aggressive behavior, and child abuse. Prerequisite: **PSYC101**.

**PSYC387 DEVELOPMENTAL PSYCHOPATHOLOGY**  
**3 sem. hrs.**

Students will develop an in-depth understanding of psychological disorders from birth through adolescence. Disorders will be conceptualized from a developmental perspective. Theories/approaches used to understand disorders, classification systems, and research strategies will be addressed. Prerequisites: **PSYC317**.

**PSYC388 GROUP PSYCHOTHERAPY**  
**3 sem. hrs.**

This course introduces students to the structure and process of group psychotherapy. The developmental process of group psychotherapy and several theoretical models of group work are detailed. Broader issues, such as the characteristics of effective group facilitators, microskills for group work, and ethical issues are also discussed. Prerequisite: **PSYC101**.

**PSYC390 SOCIAL PSYCHOLOGY**  
**3 sem. hrs.**

This course examines the scientific approach toward understanding human social behavior. The course focuses on the perspective of the individual-how people think about, influence, and relate to one another. Topics covered include social cognition, aggression, prejudice, altruism, attitudes and persuasion, group influence and relationships. Prerequisite: **PSYC101**. This course is approved for General Education Distribution 2.

**PSYC395 CLINICAL INTERNSHIP IN PSYCHOLOGY**  
**12 sem. hrs.**

Provides practical observation and experiences for the student in an approved human service agency or facility where psychological principles and techniques are used; for example, a rehabilitation center, health center or hospital, or drug-abuse treatment center. Students are graded on a satisfactory/unsatisfactory basis. Prerequisites: **PSYC385 and permission of the instructor**.

**PSYC396 RESEARCH INTERNSHIP  
IN PSYCHOLOGY****12 sem. hrs.**

This internship experience provides students with in-depth exposure to all aspects of the research process, from the development of research questions, to data collection and analysis, to the verbal and written presentation of results. Emphasis is on research in non-clinical settings. Students are graded on a satisfactory/unsatisfactory basis. Prerequisites: **PSYC227 and permission of instructor.**

**PSYC397 RESEARCH SEMINAR****3-6 sem. hrs.**

This is a seminar for juniors and advanced sophomore students who are engaged in research with a faculty mentor in psychology. This course exposes students to the methods of original research, including literature review, research design and analysis, and presentation of results. May be taken twice. Prerequisites: Permission of instructor and **PSYC227** with a "C" or better.

**PSYC400 COGNITIVE  
PSYCHOLOGY****3 sem. hrs.**

The course introduces students to the experimental research studying the mental processes and activities we use in perceiving, recognizing, remembering and understanding information. Cognitive psychology focuses on how people acquire, transform, store and retrieve knowledge. Prerequisite: **PSYC101.**

**PSYC405 LAB IN COGNITIVE  
PSYCHOLOGY****3 sem. hrs.**

This course reviews research methods in experimental cognitive psychology. Students will conduct, analyze, write-up, and present a research project from an area of cognitive psychology. Prerequisites: "C" or better in both **PSYC 227 and PSYC 400.**

**PSYC410 SENSATION AND  
PERCEPTION****3 sem. hrs.**

This course addresses the question of how environmental stimuli give rise to sensory processes (sensation) and how these sensory processes accrue meaning (perception). It presents classical and contemporary approaches to sensation and perception and explores the physiological bases of these processes for selected sensory modalities. Prerequisite: "C" or better in **PSYC227.**

**PSYC425 BEHAVIORAL  
NEUROSCIENCE****3 sem. hrs.**

Students will learn key concepts and research techniques in behavioral neuroscience. The course will emphasize nervous system anatomy and function, including nerve impulses, synaptic transmission, and psychopharmacology as they relate to brain-behavior relationships in both healthy and pathological conditions. Prerequisite: **PSYC101.**

**PSYC427 APPLIED PSYCHOLOGY  
LAB****3 sem. hrs.**

This course is an in-depth introduction to laboratory research methods in applied psychology (content will vary depending on the research interests of the instructor). The course reviews the key aspects of conducting research (including statistical analysis and experimental design). Students will design, and conduct, analyze, write-up, and present their research. Prerequisite: **PSYC227 and permission of instructor.**

**PSYC430 LAB IN SOCIAL  
PSYCHOLOGY****3 sem. hrs.**

This course reviews research methods in experimental social psychology. Students will design, conduct, analyze, write-up, and present a research project from an area of social psychology. Prerequisites: "C" or better in both **PSYC227 and PSYC390.**

**PSYC440 LAB IN BEHAVIORAL  
INTERVENTION****3 sem. hrs.**

The course provides a systematic review of contemporary behavioral intervention methods as they are commonly applied in psychological service settings. Students will increase their understanding of behavioral theories and interventions with an emphasis on applied behavioral analysis. Students will learn how to apply behavioral principles to conceptualize and change behaviors. Prerequisites: "C" or better in both **PSYC227 and PSYC300.**

**PSYC489 HISTORY AND SYSTEMS  
OF PSYCHOLOGY****3 sem. hrs.**

This capstone course surveys the ideas and discoveries that contributed to the emergence of psychology as an independent discipline. Contributions from philosophy and physiology will be discussed and the early "schools" of psychology will be presented. The course will also review the major theoretical approaches in academic and applied psychology throughout the 20th century and into the 21st. Prerequisites: **Completion of at least 27 earned credit hours in Psychology.**

**PSYC490- INDEPENDENT STUDY IN  
494 PSYCHOLOGY****1-5 sem. hrs.**

This course is designed to meet the individual needs of students who wish to prepare individual studies or projects under the direction of a member of the Psychology Department. See description of independent studies program at beginning of catalogue.

**PSYC495- SEMINAR IN  
496 PSYCHOLOGY****3 sem. hrs.**

An advanced study of selected topics in psychology. Topics will vary, depending upon the current research interest of the faculty members presenting the course. Prerequisite: **permission of the instructor.**

**PSYC497 ADVANCED RESEARCH  
SEMINAR****3-12 sem. hrs.**

Seminar for upper-level students who are engaged in research with a faculty mentor in psychology. This course immerses students in aspects of original research, including literature review, oral, and written presentation of results, and provides a common experience for students acquiring research experience. Prerequisite: **PSYC227 and permission of instructor.**

**PYMA405 WILDLIFE  
MANAGEMENT****3 sem. hrs.**

This course covers the biophysical structure of wetlands, the major ecological processes that occur in wetlands, and environmental factors that influence wetland systems. The course develops in students an understanding of the responses of wetlands to environmental variability and a familiarity with wetland management and restoration techniques and field methods used to delineate, classify, and study wetlands. Prerequisite: a C or better in **BIOL230 and BIOL240,** and a 2.0 program GPA.

**PYMA410 WILDLIFE  
MANAGEMENT****3 sem. hrs.**

This course introduces students to the collecting, observing, and identifying mushrooms and other fungi from a variety of habitats. Students will learn the taxonomy and ecology of fungi with a focus on observational and experimental approaches to understanding the fungi of northwestern Pennsylvania. Prerequisite: a C or better in **BIOL230 and BIOL240,** and a 2.0 program GPA.

**PYMA420 WILDLIFE  
MANAGEMENT****3 sem. hrs.**

This course concerns the study of the ecology, management, and conservation of forest ecosystems focusing on the eastern deciduous forest biome. Overnight field trips will be taken to study the major regional forest types. Prerequisite: a C or better in **BIOL230 and BIOL240,** and a 2.0 program GPA.

**PYMA422 WILDLIFE  
MANAGEMENT****3 sem. hrs.**

A brief review of wildlife conservation will be followed by a review of ecological principles including population ecology. Application of these principles in management of wetlands, farmlands, rangelands and forestlands for wildlife precedes more specialized aspects such as exotic, urban, nongame, and endangered wildlife programs. Prerequisite: a C or better in **BIOL230 and BIOL240,** and a 2.0 program GPA.

**PYMA433 WILDLIFE  
MANAGEMENT****3 sem. hrs.**

This course focuses on the field identification of plants and the methods of specimen preservation. To facilitate this experience, students will be exposed to the departmental

herbarium. Its function, as well as the collection, preparation and maintenance of specimens will be explained. Terminology associated with general plant structure and floral structure will be examined. Field and lecture experiences will be supplemented with on-site visits to unique environments. Prerequisite: a C or better in BIOL230 and BIOL240, and a 2.0 program GPA.

**PYMA451 HERPETOLOGY 3 sem. hrs.**  
This course covers aspects of ecology, morphology, physiology, taxonomic diversity, systematic practice, evolutionary biology, and conservation biology as they relate to reptiles and amphibians. Students will also make field collections and identifications of reptiles and amphibians. Undergraduate enrollment requires permission of the department chairperson and is limited to students with at least junior standing and a 3.0 GPA.

**PYMA462 WILDLIFE MANAGEMENT 3 sem. hrs.**  
In this course, students are introduced to a variety of field and research techniques used by ecologists and conservation biologists. Included topics are orienteering, geographical information systems, experimental design under field conditions, global positioning systems, sampling of plant and animal populations in a variety of habitats, and radiotelemetry. Prerequisite: a C or better in BIOL230 and BIOL240, and a 2.0 program GPA.

**PYMA90 WILDLIFE MANAGEMENT 3 sem. hrs.**  
This course integrates the field of ecology, epidemiology, parasitology and traditional disease biology to better understand the occurrence, dynamics and consequences of diseases. Students will learn how epidemiological and ecological concepts and theories apply to disease systems. Prerequisite: a C or better in BIOL400 and a 2.0 program GPA.

## - Q -

**QUAN340 STATISTICS FOR BUSINESS AND ECONOMICS 3 sem. hrs.**  
This course extends the basic statistical concepts of elementary statistics to the analysis of regression analysis and statistical decision theory in the context of business and economic applications. Interpretation and application of statistical results for decision-making is emphasized. The course will also introduce sources of business and economic data and ethical issues in statistical analysis and reporting. Computer applications are integrated throughout the course and a working knowledge of electronic spreadsheets is expected. Prerequisite: **CSCI104, MATH260.**

## - R -

**RUSS100 INTRODUCTION TO RUSSIAN CULTURE 3 sem. hrs.**

This introductory course provides an overview of the culture, art, history and social mores of the Russians. Taught entirely in English, RUSS100 focuses upon the most important areas of Russia and the Russian people. Appropriate films, readings, guest speakers, and discussions supplement the lecture. This course is approved for General Education – Core 5.

**RUSS101 FIRST COURSE RUSSIAN 3 sem. hrs.**

This course introduces the structures of the Russian language in a cultural context. The student will develop not only the basic skills necessary for communication in the language but also a fundamental awareness of the cultural diversity of the Russian-speaking world. This course is approved for General Education – Core 5.

**RUSS102 SECOND COURSE RUSSIAN 3 sem. hrs.**

This course is intended to continue the basic introduction to the Russian language begun in RL101, First Course Russian. In this course, the student continues his development in the areas of vocabulary, the Russian case system, the Russian verb system – in particular, the problems of aspect and directional verbs, and the systems of adjectives and adverbs. This course will also introduce a considerable amount of cultural material. Prerequisite: **RUSS101.** This course is approved for General Education – Distribution 1.

**RUSS353 RUSSIAN LITERATURE IN ENGLISH 3 sem. hrs.**

Primarily for non-Russian majors, this course introduces a systematic study of the background and main currents of Russian literary creativity. Writers such as Pushkin, Gogol, Turgenev, Dostoevsky, Tolstoy, and Chekhov receive major emphasis.

**RUSS390 SPECIAL TOPICS: RUSSIAN 1-12 sem. hrs.**

This series consists of a variety of short courses in specialized areas beyond the content of regular courses. Students may take as many or as few of such courses as they wish. Credit will be granted at the equivalence of 15 class hours a semester hour, plus requisite examination procedures. A list of courses offered, subject to changes, is maintained by the head of the Department.

**RUSS490-492 INDEPENDENT STUDY IN RUSSIAN 1-12 sem. hrs.**

The Independent Study program aims to serve those students whose scholarly bent seems most clearly adapted to independent work.

Students are permitted to resolve problems and to earn credit for work performed outside the classroom requirement of any specific course in the curriculum.

## - S -

**SEDU183 TECHNOLOGY FOR TEACHING AND LEARNING 3 sem. hrs.**

This course is an educational technologies course for teacher candidates. The content is based on the International Society and Technology in Education (ISTE) standards. Participants will be exposed to a blend of theoretical and practical applications of techniques. There will be a focus on instructional technologies, diverse settings, and differentiated instruction. This course also includes the introduction and use of the Pennsylvania Department of Education's Standards Aligned System. This course is approved for General Education: Computer Competency.

**SEDU271 MULTICULTURALISM IN AMERICAN SCHOOLS 3 sem. hrs.**

This course aims to foster an understanding and respect for persons from diverse backgrounds and encourages students to recognize the effects of various influences on the development of education in a multicultural society. The course will explore relevant issues that affect the structure and organization of the American school system and implications for providing quality education to diverse population of students.

**SEDU282 ETHICS, CULTURE AND AMERICAN EDUCATION 3 sem. hrs.**

This interdisciplinary and collaborative course combines faculty from education and history to provide knowledge of moral theories, historical background of American education, examination of current issues in education and an education-related service component as they apply to ethical dilemmas, analysis, problem solving and moral reasoning in the current educational environment. This course also includes a service learning environment. This course is approved for General Education Core 6.

**SEDU300 URBAN SEMINAR 3 sem. hrs.**

This course is designed to provide a first-hand experience in an urban, multicultural setting. Specifically, to provide teacher education majors with an opportunity to gain an understanding of cultural, economic, ethnic, racial, linguistic, and social differences through work with a cooperating teacher and students in an inner city school. The seminar includes a carefully planned combination of school, community, and cultural experiences. Prerequisite: Teacher Candidacy.

**SEDU306 CONTENT LITERACY IN THE MIDDLE AND SECONDARY SCHOOLS****2 sem. hrs.**

This course provides candidates with the opportunities to use reading as a tool for learning content. Candidates will learn about the diverse reading needs of students across the curriculum; use assessment tools, differentiate instruction that is developmentally appropriate; and recognize the requirement for providing a wide variety of print and non-print resources. This course provides a Stage 2 Field requirement.

**SEDU350 EDUCATIONAL THEORIES AND PRACTICES IN SECONDARY SCHOOLS****3 sem. hrs.**

This course aims to bridge the gap between theory into practice by outlining the educational theories supportive of effective facilitators of learning and providing field experiences that model these theories. In addition, important topics that impact instruction will be shared including exploration of the developmental characteristics of adolescents, common core standards, transitions issues, grade level characteristics, and specific needs of special populations. This course fulfills Stage 2 Field Experience. Prerequisite is SEDU271.

**SEDU381 ASSESSMENT FOR MIDDLE AND SECONDARY CLASSROOMS****3 sem. hrs.**

This course investigates the importance of active and student-centered assessment strategies in middle and secondary classrooms. It prepares educators to craft, critique, and administrator appropriate assessments, and communicate assessment results for diverse classroom populations. It stresses the relationship of curriculum, assessment, and instruction. This course is part of the professional block. Prerequisite: Candidacy.

**SEDU383 EDUCATIONAL TECHNOLOGY AND COMPUTER LITERACY****3 sem. hrs.**

This course provides students with methods and means for using instructional technology to solve teaching-learning problems. Readings, course work, and hands-on experience provide students with a basis not only for thinking about technology but also for actually producing media and materials. Students gain a working knowledge of applications such as Microsoft Works, e-mail, the Internet/WWW, of the hardware necessary to accomplish these tasks, and of materials and the methods for integrating these materials to support the instructional process. This course is approved for General Education – Computer Competency.

**SEDU465 INSTRUCTIONAL TECHNIQUES FOR THE TEACHING OF ENGLISH****3 sem. hrs.**

This course prepares prospective English teachers to make decisions regarding theories and models of English language acquisition and development. It addresses language arts instruction, daily and unit planning, use of print and nonprint media, techniques for teaching ESL and special needs students. It addresses problem solving in integrated language arts instruction, classroom management, assessment and motivational strategies. Prerequisites: **ENGL102**, 18 hours of coursework in English major content area, and teacher candidacy.

**SEDU471 INSTRUCTIONAL TECHNIQUES FOR MATHEMATICS****3 sem. hrs.**

This course prepares prospective mathematics teachers to make informed decisions regarding theories and models of mathematics. It addresses instruction, daily and unit planning, application of the standards, classroom management, assessment, motivational strategies, techniques for teaching students of diverse backgrounds and those with special needs. Graduate students will develop a collection of plans that demonstrates integration of their primary discipline standards with other discipline standards. Students who have successfully completed EDUC380 may not take this course for credit. Prerequisite: **ENGL102**, 18 hours in major area, and teacher candidacy.

**SEDU472 INSTRUCTIONAL TECHNIQUES FOR SCIENCE****3 sem. hrs.**

This course prepares prospective science teachers to make informed decisions regarding theories and models of science. It addresses instruction, daily and unit planning, application of the standards, classroom management, assessment, motivational strategies, techniques for teaching students of diverse backgrounds and those with special needs. Graduate students will develop a collection of plans that demonstrates integration of their primary discipline standards with other discipline standards. Students who have successfully completed EDUC380 may not take this course for credit. Prerequisite: **ENGL102**, 18 hours in major area, and teacher candidacy.

**SEDU473 INSTRUCTIONAL TECHNIQUES FOR SOCIAL STUDIES****3 sem. hrs.**

This course prepares prospective social studies teachers to make informed decisions regarding theories and models of science. It addresses instruction, daily and unit planning, application of the standards, classroom management, assessment, motivational strategies, techniques for teaching students of diverse backgrounds

and those with special needs. Graduate students will develop a collection of plans that demonstrates integration of their primary discipline standards with other discipline standards. Students who have successfully completed EDUC380 may not take this course for credit. Prerequisite: **ENGL102**, 18 hours in major area, and teacher candidacy.

**SEDU474 INSTRUCTIONAL TECHNIQUES FOR MODERN FOREIGN LANGUAGES****3 sem. hrs.**

This course prepares students to teach foreign languages. It addresses instruction, lesson planning, application of the standards, and motivational strategies for teaching students of diverse backgrounds including English Language Learners and those with special needs. It addresses problem solving in integrated foreign language instruction and motivational strategies. Prerequisite: candidacy.

**SEDU475 SECONDARY EDUCATION FIELD EXPERIENCE****3 sem. hrs.**

This course provides prospective teachers with a pre-student teaching field experience. This experience places each student with a cooperating teacher in the public schools and provides a variety of experiences. Students teach a minimum of six full period lessons and complete various professional development activities. Each student must complete a formal application, meet requirements, and provide his/her own transportation. Graduate students will be required to teach an additional lesson and keep a journal. Prerequisite: teacher candidacy.

**SEDU476 FIELD EXPERIENCE FOR MIDDLE AND SECONDARY EDUCATION****3 sem. hrs.**

Teacher candidates will practice teaching skills in a middle/secondary classroom, be provided a variety of experiences, and be supervised by university faculty and a certified cooperating teacher. Teacher candidates will teach integrated lessons developed in block classes. This course is part of professional block. Prerequisite: candidacy.

**SEDU481 INSTRUCTIONAL TECHNIQUES FOR MATHEMATICS****3 sem. hrs.**

This course prepares prospective mathematics teachers at the undergraduate level to make informed decisions regarding the theories and models of mathematics instruction. It addresses instruction, lesson planning, standards, the application of the Standards Aligned System (SAS), and inclusion of students with diverse backgrounds such as special needs and English Language Learners (ELL). The course also addresses problem solving in the selection and delivery of instruction, assessment and motivation strategies. Undergraduate Prerequisite: Teacher Candidacy.

**SEDU482 INSTRUCTIONAL TECHNIQUES FOR SECONDARY SCIENCE 3 sem. hrs.**

This course prepares prospective science teachers at the undergraduate level to make informed decisions regarding the theories and models of science instruction, lesson planning, standards, the application of the Standards Aligned System (SAS), and inclusion of students with diverse backgrounds such as special needs and English Language Learners (ELL). The course also addresses problem solving in the selections and delivery of instruction, assessment and motivation strategies. Undergraduate Prerequisite: Teacher Candidacy

**SEDU483 INSTRUCTIONAL TECHNIQUES FOR SOCIAL STUDIES 3 sem. hrs.**

This course prepares prospective teachers to make informed decisions regarding the theories and models of social studies. It addresses instruction, lesson planning, application of standards, assessment, motivation strategies, and techniques for teaching students of diverse populations, including English language learners and those with special needs. This course also includes the use of the Pennsylvania Department of Education's Standards Aligned. Undergraduate Prerequisite: Teacher Candidacy.

**SEDU484 INSTRUCTIONAL TECHNIQUES FOR THE TEACHING OF ENGLISH 3 sem. hrs.**

This course prepares prospective teachers to make informed decisions regarding the theories and models of English language arts instruction. It addresses instruction, planning, application of standards, classroom management, assessment, motivation strategies, and techniques for teaching students of diverse populations, including English language learners (ELL) and those with special needs. This course is part of a professional block and includes stage 3 Field Experience. Undergraduate Prerequisite: Teacher Candidacy.

**SEDU485 INSTRUCTIONAL TECHNIQUES FOR MIDDLE AND SECONDARY CLASSROOMS 3 sem. hrs.**

This course prepares prospective teachers at the undergraduate and graduate levels to make informed decisions regarding the theories and models of content instruction. It addresses instruction, lesson planning, standards, the application of the Standard Aligned System (SAS), and inclusion of students with diverse backgrounds such as special needs and English

Language Learners (ELL). The course also addresses problem solving in the selections and delivery of instruction, assessment, and motivational strategies. Undergraduate Prerequisite: Teacher Candidacy.

**SEDU490 INDEPENDENT STUDY IN EDUCATION 3-12 sem. hrs.**

**SEDU491 CLASSROOM MANAGEMENT IN 7-12 CLASSROOMS 3 sem. hrs.**

This course provides pre-service 7-12 teacher candidates with research-based theories, models, and techniques for building classroom communities whereby 7-12 students are highly involved in worthwhile activities that support their learning. Specific classroom management issues associated with 7-12 classrooms will be addressed. This course will be taken in conjunction with teacher candidates' stage four student teaching experience. Prerequisite: Teacher candidacy.

**SEDU495 STUDENT TEACHING 12 sem. hrs.**

This culminating experience is coordinated and supervised by University faculty and provides opportunities for teacher candidates to display competency in teaching grades 7-12 under the direct daily supervision of a qualified cooperating teacher. This course provides the Stage 4 Field Experience. Prerequisite: candidacy.

**SEDU490 INDEPENDENT STUDY IN EDUCATION 3-12 sem. hrs.**

**SEDU491 PROFESSIONAL PERFORMANCE FOR THE EFFECTIVE MIDDLE/ SECONDARY CLASSROOM 3 sem. hrs.**

This course provides pre-service and in-service educators with research-based theories, models, and techniques that build knowledge and performance of appropriate educational-techniques for the diverse middle and secondary classroom environments. The course examines issues related to professional development, proactive and management techniques pertinent to the young and developing adolescent learner, and family and community collaboration. Prerequisite: teacher candidacy.

**SEDU495 STUDENT TEACHING 12 sem. hrs.**

This culminating experience coordinated and supervised by University faculty, provides opportunities to display competency in middle and secondary schools under the direct, daily supervision of a qualified cooperating teacher. Under extenuating circumstances, enrollment for six semester hours requires permission of both the chairperson of Secondary Education Department and the dean of education.

**SOWK100 INTRODUCTION TO SOCIAL WORK 3 sem. hrs.**

This course introduces the institution of social welfare and the profession of social work. Students will look at some common human needs, and the services which meet them. Values and issues related to the profession of social work, and roles assumed by social workers and related helping professionals in the social service delivery system, will be explored. This course also serves as a beginning career testing opportunity.

**SOWK115 HUMAN DIVERSITY 3 sem. hrs.**

This course celebrates human differences, developing an appreciation of diversity and multiculturalism. Students will learn the histories and cultures of many U.S. subcultures, including African-Americans, Latinos, Asian-Americans, Native-Americans, women, people with disabilities, sexual minorities and others. No prerequisites. It can be taken as a free elective and part of the Women's Studies curriculum.

**SOWK205 HUMAN BEHAVIOR IN THE SOCIAL ENVIRONMENT 3 sem. hrs.**

The course reviews significant concepts of systems theory. This review orients the student's frame of reference in a way that promotes understanding and explanation of the subtle and complex relationship between human behavior and the social environment. The course examines factors that shape behavior and the implications of these interactions for social work practice. Prerequisites: BIOL101, SOC100, PSYC101 and SOWK100.

**SOWK250 INTRODUCTION TO SOCIAL WELFARE POLICY 3 sem. hrs.**

This second of three courses in the Services-Policy sequence for the Bachelor of Social Work introduces social policy and explains how policy decisions at all levels affect social services, its clients, and the performance of social workers. Prerequisite: SOWK100 and SOWK115 or permission of the instructor.

**SOWK300 SOCIAL WELFARE POLICY 3 sem. hrs.**

This course provides to the student an opportunity to examine critically and analytically the social welfare institution and its relationship to other institutions in our society. Societal attitudes and views toward dependency and deviance, and the way these attitudes translate into social welfare policy and programs will be a unifying theme for the course. The role of the social worker as broker, enabler, therapist, social planner, and advocate will be explored. The necessity for



the system to provide linkages between people and resources and to maximize choices and options for people will be a theme throughout. Prerequisite: **SOWK100**.

**SOWK310 SOCIAL WORK PRACTICE I 3 sem. hrs.**

This course presents the common core of knowledge, skills, and values essential to generalist social work practice. This course has a three hour per week required field component. Prerequisites: **SOWK100, SOWK115, SOWK205, SOWK250**.

**SOWK312 SOCIAL WORK PRACTICE II 3 sem. hrs.**

This course focuses on social work practice in the organizational and community contexts. Students will learn methods of assessment, engagement, and intervention within organizations and communities, methods of promoting effective and humane operation of these systems, and methods of modifying them to be more equitable, just, and responsive. Prerequisite: **SOWK310**.

**SOWK315 INTRODUCTION TO SOCIAL WORK RESEARCH 3 sem. hrs.**

This course provides an introduction to research in social work and its use in policy and practice. The student will be exposed to the historical and ethical bases of social work research. The student will be made aware of the language of research and how to interpret, evaluate and disseminate research findings. Prerequisites: **SOWK205, PSYC225** or permission of the instructor.

**SOWK375 MEDICAL SOCIAL WORK 3 sem. hrs.**

This course provides the student with knowledge about human service delivery in the hospital setting. Emphasis is on counseling techniques and roles which social workers and nurses assume in the medical settings. Optional field experience will be available. Prerequisite: **PSYC101**.

**SOWK380 CHILD WELFARE 3 sem. hrs.**

This course is designed to familiarize the student with the field of child welfare, its historical roots, the services provided to children in their own homes and elsewhere, the roles of child welfare workers in a variety of settings, and some of the problems and policy issues in our current child welfare system. The issue of children's rights will be raised. Films, readings, lectures, class discussions and exercises, student projects and presentations, agency visits, and speakers will be among the learning experiences. No prerequisites.

**SOWK385 HUMAN SERVICE ADMINISTRATION AND PLANNING 3 sem. hrs.**

The purpose of this course is to provide education and experience regarding the unique structure and philosophy of public and private human service organizations. The vital elements of effective human service administration will be emphasized. The significance of planning and sufficient information is also underscored. Current issues in social administration will also be explored.

**SOWK390 AGING AND HUMAN SERVICES 3 sem. hrs.**

This course will study the social services which are available for the aging in the United States in general and Pennsylvania in particular. It will examine some of the special problems of the aged, while also focusing on the variability of the aging population. Service availability and various unique factors in service delivery to the aged will also be explored.

**SOWK395 SOCIAL WORK PRACTICE IN MENTAL HEALTH 3 sem. hrs.**

This course is offered as an elective for Level II social work majors and students in related disciplines who have completed at least 60 credits. This course provides a framework for understanding the range of mental health disorders experienced by social work clients. Students learn about mental health diagnoses, services, and policies guiding practice. Mental health disorders will be examined from a strengths-based, bio-psycho-social-cultural-spiritual perspective as consistent with the social work tradition. Prerequisites: Level II Social Work major or permission of the instructor.

**SOWK410 SOCIAL WORK PRACTICE III 3 sem. hrs.**

This course builds upon SOWK310 and SOWK312 in developing professional knowledge, values, and skills in working with individuals, families, and small groups. It allows students opportunity to focus on a number of specific practice models, and to develop skills in particular social work roles. This course has a three hour per week required field component. Prerequisites: **SOWK310** and **SOWK312**.

**SOWK490 INDEPENDENT STUDY 2-5 sem. hrs.**

The Independent Study program aims to serve those students whose scholarly bent seems most clearly adapted to independent work. Students are permitted to resolve problems and to earn credit for work performed outside the classroom requirement of any specific course in the curriculum.

**SOWK495 INTERNSHIP: SENIOR FIELD WORK 12 sem. hrs.**

This course is a four day per week internship, in an approved agency, under professional supervision. The Field Manual details course goals and objectives, placement criteria and procedures, and evaluation criteria. Prerequisites: All other required social work courses **except SOWK496**, which **MUST** be taken concurrently.

**SOWK496 SENIOR SEMINAR 3 sem. hrs.**

In the seminar students discuss placements, integrate theory and practice, and deal with professional issues, including involvement in professional organizations, professional graduate education, personnel and social welfare policies, and professional ethics. Prerequisites: All required Social Work courses **except SOWK495**, which **MUST** be taken concurrently with this course.

**SOC100 PRINCIPLES OF SOCIOLOGY 3 sem. hrs.**

This course introduces the logical principles and scientific techniques used in sociology to understand social behavior. The course focuses on culture, norms, status, role, socialization, stratification, industrialization, and urbanization. Emphasis is placed on culturally diverse values and attitudes as they evolve through the major social institutions. This course is approved for General Education – Core 5.

**SOC207 CONTEMPORARY SOCIAL PROBLEMS 3 sem. hrs.**

This course presents a comprehensive and insightful sociological understanding of specific problems faced in the contemporary society. Each problem will be analyzed for its impact as it impinges on the individual, the group and the larger society. This course is approved for General Education – Distribution 2.

**SOC232 INTRODUCTION TO CRIMINOLOGY 3 sem. hrs.**

This course is an introduction to the sociological study of crime. The focus will be on the nature, incidence, prevalence and extent of crime in American society. The student will be introduced to various forms of crime, including, but not limited to, violent crime, property and personal crime, white collar crime and public order crime. The emphasis on these examinations will be sociological, exploring offender and victim socio-demographic characteristics, the interplay of race, gender and social class among both offenders and victims and the various social policies proposed or enacted to reduce criminal offending and victimization.

**SOC250 INTRODUCTION TO SOCIOLOGICAL RESEARCH METHODS 3 sem. hrs.**

This course is designed to introduce students to the basic logic behind sociological inquiry, as well as the specific procedures and techniques that sociologists and other social scientists employ to conduct applied social scientific research. After completion of this course, students should have an enhanced understanding of social scientific research methods, which will better enable them to design their own research projects in the advanced methodological courses required for sociology majors. Prerequisite: **SOC100**.

**SOC260 INTRODUCTION TO SOCIOLOGICAL THEORY 3 sem. hrs.**

This course introduces the field of sociological theory by examining those classic theorists who have had the greatest impact on the discipline. Some attention will be paid to the social and intellectual contexts in which the theorists worked. Emphasis will be placed on linking the major theoretical contributions to concrete cases of sociological research both basic and applied. Prerequisite: **SOC100** or permission of the instructor.

**SOC300 VICTIMOLOGY 3 sem. hrs.**

This course will examine the current theory and research regarding victims of crime, which include intimate violence, stranger violence, workplace violence, and school violence. The patterns of crime, patterns of victim-offender relationships, the process and consequences of victimization, victim vulnerability and victim culpability will also be examined. In addition, victim restitution, compensation and mediation will be addressed. Prerequisite: **SOC100**.

**SOC305 URBAN SOCIOLOGY 3 sem. hrs.**

The study of the urban community and the role which it plays in the social, cultural, economic and political aspects of American society. Included will be the historical development of the city in other parts of the world and the impact of urban values and attitudes on the American way of life. Prerequisite: **SOC100** or permission of the instructor.

**SOC310 POPULATION AND ECOLOGY 3 sem. hrs.**

An analysis of the composition and distribution of human population and their impact on the ecological system. Study of fertility, morality, and migration, the theory of demographic transition, and the changing ecological bases of social organization. Current problems with emphasis on the relationship between population pressure, life style, and environmental deterioration. Prerequisite: **SOC100** or permission of the instructor.

**SOC320 SOCIOLOGY OF DEVIANCE 3 sem. hrs.**

This course focuses upon the process by which individuals or groups in societies become labeled as deviant, the reaction of society to deviance and the methods by which various agencies and individuals attempt to regulate, control and treat deviance. Particular attention is given to the assumption of deviant identities, the formation of deviant subcultures and the creation of secondary deviance. Prerequisites: **SOC100**. This course is approved for General Education - Distribution 2.

**SOC325 THE SOCIOLOGY OF ROLES 3 sem. hrs.**

This course explores the social construction of gender. It will examine the ways in which gender is a social phenomenon that changes over time and varies across cultures. We will critically explore the idea of fixed sex and gender and, using the sociological and feminist perspectives, will address gender as a major organizing aspect of society, including how gender is constructed via everyday interactions and expressed in major social institutions. Additionally, the course will explore patterns of gender inequalities in hierarchical gender systems that are exhibited in social patterns, both structural and personal. Prerequisite: **SOC100** Principles Sociology.

**SOC326 SOCIETY AND THE INDIVIDUAL 3 sem. hrs.**

This course will introduce student to the study of human social interaction and organization on the micro level of social reality. Students will be expected to analyze social practices that contribute to reality maintenance and the construction of social identities. With a focus on the everyday life worlds of social actors, this course reviews theoretical and empirical research stemming from symbolic interactionist, constructionist, and ethno methodological traditions. The material in this course interrogates the normative construction of social life in order to increase students' pragmatic social competencies in a variety of fields practical action. This course is approved for General Education – Distribution 2. Prerequisite: **SOC100**

**SOC333 METHODS OF POLICY EVALUATION IN SOCIAL SCIENCE 3 sem. hrs.**

An application of social scientific methods and concepts to critically analyze and comprehensively evaluate contemporary public policy in America and its impact upon society. Case studies include reform proposals and policy on health care, poverty, housing, education, criminal justice, taxes, childcare, and the environment. Prerequisite: **SOC100** and **SOC 250** or permission of the instructor.

**SOC335 JUVENILE DELINQUENCY 3 sem. hrs.**

A sociological analysis regarding the factor contributing to juvenile delinquency, as well as a sociological interpretation of related agencies and professions dealing with such phenomenon. Prerequisite: **SOC100**.

**SOC340 SOCIOLOGY OF MARRIAGE AND FAMILY 3 sem. hrs.**

This course introduces the institution of marriage and family. Included is an examination of factors influencing family structure, class and ethnic variation, premarital and marital interaction, the parental system, and marriage and family in late life. Prerequisite: **SOC100** or permission of the instructor. This course is approved for General Education – Distribution 2.

**SOC341 SOCIALIZATION OF THE CHILD 3 sem. hrs.**

The course presents a scientific study of the child's socialization process. Within the framework of the social and cultural milieu of contemporary American society, each child is considered as a significant individual. Problem families requiring various responses and intervention services will be studied. Prerequisite: **SOC100** or permission of the instructor.

**SOC343 SOCIOLOGY OF RELIGION 3 sem. hrs.**

This course emphasizes the scientific study of religion based on an examination of religious beliefs and practices in literate and non-literate cultures. The course also focuses upon the relationship of religion to economic and political structures, as well as upon their aspects of life in an industrialized society. Prerequisites: **SOC100** or permission of the instructor.

**SOC347 WORK AND SOCIETY 3 sem. hrs.**

This course acquaints the student with work organizations in contemporary societies. The social significance of industrial and service employment is treated with regard to leisure, social control, value systems and social structures. The relationship of the work place to the community in pre and post industrialized societies will be discussed from both a practical and theoretical point of view. Prerequisite: **SOC100** or permission of the instructor. This course is approved for General Education – Distribution 2.

**SOC350 INTRODUCTION TO MEDICAL SOCIOLOGY****3 sem. hrs.**

This course examines individual and societal responses to illness and disease, the social inequalities that structure the experience of illness and access to health care, challenges to biomedical medical research, and the future of health care in a changing global society. Prerequisite: **SOC100** or permission of the instructor.

**SOC364 RACE AND ETHNIC RELATIONS****3 sem. hrs.**

This course acquaints the student with the major racial and ethnic groups in contemporary America. Various sociological approaches, both past and present, are used to critically examine ethnicity, racism, discrimination, and interethnic relations. Prerequisite: **SOC100** or permission of the instructor. This course is approved for General Education – Distribution 2.

**SOC367 SOCIAL MOVEMENTS****3 sem. hrs.**

An analysis of theoretical models for the study of social movements followed by the application of historical and current events as they apply to the above models. Prerequisite: **SOC100** or permission of the instructor.

**SOC370 SOCIAL GERONTOLOGY****3 sem. hrs.**

The intent of this course is to provide a brief, but comprehensive introduction to the field of human aging, with particular emphasis on the social dimension. A brief summary of the impact of aging on biological and psychological functioning is included as useful information enabling the student to better put the social aspects of aging into a realistic context. Prerequisite: **SOC100** or permission of the instructor.

**SOC375 SOCIAL PRINCIPLES OF RELIGION AND MYTH****3 sem. hrs.**

A thorough review and comprehensive analysis of social principles contained within the sacred literature of world religions and mythology with an emphasis upon the social justice traditions of Christianity and the social impact of applied creeds as expressed in liberation theology, creation spirituality and the social gospel. Prerequisite: **SOC100** or permission of the instructor.

**SOC390 SOCIOLOGY OF THE LIFE CYCLE****3 sem. hrs.**

This course sociologically analyses the life cycle from childhood through old age. It acquaints the student with the creation, maintenance, and transformation of roles during various stages of life. The impact of social institutions, primary relationships, and

occupation are examined as they relate to the process of personal maturation and change. Prerequisite: **SOC100** or permission of the instructor. This course is approved for General Education – Distribution 2.

**SOC395 SOCIOLOGICAL FIELD STUDIES****6-15 sem. hrs.**

The field study program is open to qualified students majoring in Sociology. It is designed to give the student firsthand, practical experience in public or private agencies (whose work is related directly to sociology). Closely supervised periods of service are arranged in advance by the Department of Sociology, the participating Agency, and if necessary, the University. Prerequisite: Permission of the Instructor. Closely supervised periods of service are arranged in advance by the Department of Sociology, the participating agency, and if necessary, the University.

**SOC397 SPECIAL TOPICS IN SOCIOLOGY****1-3 sem. hrs.**

The subjects in Sociology treated in this course will vary, depending upon student and instructor interests and are beyond the scope of materials treated extensively in regularly scheduled courses. A list of topics is maintained in the files of the department head.

**SOC432 ADVANCED CRIMINOLOGY****3 sem. hrs.**

This course is an in-depth analysis as to the causes of crime. The student will critically examine theories of crime including means of social control and crime reduction strategies based on criminological theory. Prerequisite: **SOC232** Introduction to Criminology or **SOC100** Principles of Sociology or permission of the instructor and a minimum 60 credit hours.

**SOC440 APPLIED QUALITATIVE RESEARCH METHODS****3 sem. hrs.**

This course introduces students to the applied research methods, techniques and strategies used by qualitative researchers in the social sciences. Topics include applied qualitative research design, ethical concerns, participant observation, interviewing, focus groups, ethnography, participatory and action research, feminist methodologies, case studies, content analysis, and visual methods, among others. Emphasis is placed on the engaged and interpretive study of everyday life through a variety of field assignments that require an involved, active, and reflexive approach to designing, gathering, analyzing, reporting, and presenting insights gained from applied qualitative social science research techniques. Prerequisites: **SOC100, SOC250,** or permission of instructor.

**SOC450 APPLIED QUANTITATIVE RESEARCH METHODS****3 sem. hrs.**

Students in this course will study the quantitative methodology and techniques of social research. The focus is on research design, execution, data analysis, and report writing. Special attention will be given to data entry, manipulation, analysis, and presentation using statistical software (SPSS). The course is intended to prepare the student to work in an applied setting. Particular emphasis will be placed on selection of research designs and quantitative techniques appropriate for specific problem analysis, as well as on the presentation of research findings to either a client or a professional audience. Students will be required to carry out their own quantitative research project using secondary data analysis. Prerequisite: **SOC250**

**SOC499 INEQUALITY, POWER, AND SOCIAL CHANGE****3 sem. hrs.**

This course will address the multiplicity of forms and systems of inequality, a range of thinking about the theoretical and practical workings of power and empowerment. It will also examine the ways in which these concepts are embedded in the process of social change for individuals, groups, communities, organizations, institutions, and social structures. As our program's capstone course, students are expected to produce a robust empirically grounded research paper on some form or aspect of inequality, power, or social change and present the results of their work in a planned public forum. Prerequisites: **SOC260, and SOC440 or SOC450** completed or concurrent.

**SOC490-494 INDEPENDENT STUDY****2-5 sem. hrs.**

The Independent Study program aims to serve those students whose scholarly bent seems most clearly adapted to independent work. Students are permitted, with faculty supervision, to undertake an advanced research project and earn credit for work performed outside the classroom requirement of any specific course in the curriculum. Students completing Independent Studies are encouraged to present their papers or research at professional conferences.

**SOC502 CONTEMPORARY SOCIOLOGICAL THEORY****3 sem. hrs.**

Analysis of the main trends in contemporary sociological theory and a critical assessment of the various trends. Special consideration will be given to power in the functionalist, mathematical, equilibrium, and evolutionist models. Prerequisite: **SOC100** or permission of the instructor. (Formerly **SOC302**).

**SHLD125 PSYCHOLOGY OF COMMUNICATION****3 sem. hrs.**

This course introduces the terms and concepts used in the study of communication science. It examines the underlying psychological and cognitive variables influencing human communication. Emphasis is placed upon the relationship of linguistic and psycholinguistic constructs to thought and behavior. This course is approved for General Education Core 4 – Human Behavior.

**SHLD210 SURVEY OF COMMUNICATION DISORDERS IN CHILDREN****3 sem. hrs.**

This course introduces students to human communication disorders occurring in children. It distinguishes between cultural differences, communicative disturbances, and communication disorders. Content emphasizes identification, prevention, management, and coping strategies of both children with communication disorder(s) and concerned family members.

**SHLD220 SURVEY OF COMMUNICATION DISORDERS IN ADULTS****3 sem. hrs.**

This course surveys normal and pathological changes associated with aging and their impact on communication. It discusses physical/physiological, psychological, and social aspects of aging in relationship to communication and communication disorders commonly associated with the elderly population.

**SHLD230 INTRODUCTION TO AUDIOLOGY****3 sem. hrs.**

This course introduces students to the profession of audiology and its scope of practice. It examines basic evaluation procedures and methods of (re)habilitation for individuals with hearing loss. Students with credit earned in SHLD310 may not take this course.

**SHLD300 NORMAL COMMUNICATION DEVELOPMENT ACROSS THE LIFESPAN****3 sem. hrs.**

This course introduces the student to speech and language development through the lifespan. It emphasizes acquisition of communication, speech, and language in the context of overall child development. Students with credit earned in SHLD140 may not take this course. This course is approved for General Education – Distribution 2.

**SHLD320 MANAGING ARTICULATION AND PHONOLOGICAL DISORDERS****3 sem. hrs.**

This course examines normal and disordered development of phonology and articulation skills. It presents various philosophies of articulation and phonological remediation. Prerequisite: **SHLD375**. Students with credit earned in SHLD325 may not take this course.

**SHLD340 ADVANCED LANGUAGE DEVELOPMENT AND ANALYSIS****3 sem. hrs.**

This course explores the characteristics of normal language development of the preschool, school age, and adolescent child. Issues of normal language-based literacy (reading, writing, spelling) development are explored, as are language analysis techniques. Prerequisite: **SHLD125** and **SHLD300**. This course is approved for General Education – Distribution 2.

**SHLD350 SPEECH AND HEARING SCIENCE****3 sem. hrs.**

This course introduces the physical, biological, and psychological aspects of normal and disordered speech and hearing processes. It also examines the operation and application of specialized clinical and laboratory instrumentation to assessment and therapeutic management. Prerequisite: **SHLD355**.

**SHLD355 ANATOMY AND PHYSIOLOGY OF THE SPEECH AND HEARING****3 sem. hrs.**

This course introduces basic gross and functional normal anatomy and physiology underlying the systems involved in speech, language, hearing, and swallowing.

**SHLD375 ACOUSTICAL PHONETICS AND PHONETIC ANALYSIS****3 sem. hrs.**

This course describes the acoustic elements and physics of normal speech sound formation. The International Phonetic Alphabet will be used to code normal speech production.

**SHLD420 OBSERVATION OF NORMAL AND DISORDERED COMMUNICATION****3 sem. hrs.**

This course establishes clinical observational skills and introduces students to clinical planning. It discusses specific procedures, methods, and materials commonly used in service delivery. The course satisfies the supervised clinical observation hours requirement specified by the American Speech-Language-Hearing Association. Prerequisites: **SHLD320** and **SHLD340**.

**SHLD500 NEUROANATOMY FOR THE SLP****3 sem. hrs.**

This course introduces students to the neuroanatomy and physiology underlying speech and language. It emphasizes an understanding of the nervous system from a neurobiological perspective. Behavioral and communicative disturbances resulting from disease, defect, or injury are discussed. Prerequisite: **SHLD355**.

**SHLD515 AUDIOLOGIC REHABILITATION****3 sem. hrs.**

This course discusses the etiologies and psychological effects of hearing loss emphasizing such habilitative approaches as lipreading, auditory training, and speech therapy. Prerequisite: **SHLD230**.

**SHLD520 COMMUNICATION DISORDERS ACROSS CULTURES****3 sem. hrs.**

This course examines the background, values/beliefs, and language issues of culturally and linguistically diverse populations. Specifically, Black, Latino, Native American, and Asian minorities are targeted to aid in distinguishing language differences from disorders.

**SHLD530 COUNSELING AND COMMUNICATION DISORDERS****3 sem. hrs.**

This course provides students with a working knowledge of how a communication disability impacts people and their families. It explores techniques of counseling specific to speech-language pathology and audiology.

**SHLD550 PROFESSIONAL TOPICS IN SPEECH-LANGUAGE PATHOLOGY****3 sem. hrs.**

This course introduces students to professional issues that currently impact service delivery in speech-language pathology. It presents the scope of practice, formal structure of the profession, risk management, licensure/certification, and student ethics.

**SPAN100 INTRODUCTION TO SPANISH CULTURE****3 sem. hrs.**

This introductory course will focus on the cultural history of the people of Mexico, Colombia, and the Spanish-speaking Caribbean (Cuba, Puerto Rico, Dominican Republic). The course will examine some of the historical and cultural developments, cultural traits, music, and celebrations that have helped to shape the contemporary societies of these regions. The history of the relationship of these countries with the U.S. will also be examined, as well as the influences of these cultures in the U.S. This course is approved for General Education Core 5.

**SPAN101 FIRST COURSE IN SPANISH 3 sem. hrs.**

This course introduces the structures of the Spanish language in a cultural context. The student will develop not only the basic skills necessary for communication in the language but also a fundamental awareness of the cultural diversity of the Spanish-speaking world. This course is approved for General Education – Core 5.

**SPAN102 SECOND COURSE IN SPANISH 3 sem. hrs.**

This course continues the fundamentals of the Spanish language: pronunciation, principles of grammar, audio-lingual emphasis, reading and writing of basic Spanish. Continuation of SPAN101. Prerequisite: **SPAN101** or equivalent. This course is approved for General Education – Distribution 1.

**SPAN103 SPANISH FOR MEDICAL PERSONNEL 3 sem. hrs.**

This course introduces the basic grammatical structures of the Spanish language to prepare students for interaction with members of the Spanish speaking community in a health care setting at a basic level. In addition, it also places special emphasis on content specific to the medical field while presenting the geographical and cultural diversity of the Spanish speaking community.

**SPAN104 SPANISH FOR LAW ENFORCEMENT PERSONNEL I 3 sem. hrs.**

This course introduces the basic grammatical structures of the Spanish language to prepare students for interaction with members of the Spanish speaking community in a law enforcement setting at a basic level. In addition, it also places special emphasis on content specific to law enforcement while presenting the geographical and cultural diversity of the Spanish speaking community.

**SPAN105 SPANISH FOR LAW ENFORCEMENT PERSONNEL II 3 sem. hrs.**

This course introduces the basic grammatical structures of the Spanish language to prepare students for interaction with members of the Spanish speaking community in a law enforcement setting at a basic level. In addition, it also places special emphasis on content specific to law enforcement while presenting the geographical and cultural diversity of the Spanish speaking community. Prerequisite: **SPAN104**.

**SPAN201 THIRD COURSE IN SPANISH 3 sem. hrs.**

This course continues further development of language skills with emphasis on the acquisition of reading ability. Prerequisite: **SPAN102** or equivalent. This course is approved for General Education – Distribution 1.

**SPAN202 FOURTH COURSE IN SPANISH 3 sem. hrs.**

This course continues further development of language skills with emphasis on the acquisition of reading ability. Prerequisite: **SPAN201** or equivalent. This course is approved for General Education – Distribution 1.

**SPAN307 SPANISH CONVERSATION AND COMPOSITION I 3 sem. hrs.**

This course is an intensive review of Spanish grammar designed to increase students' proficiency in all language skills with particular attention to intermediate high and advanced low level of speaking, reading and writing. Readings include topics in Hispanic culture, including current affairs, history, and literature. Prerequisites: **SPAN202** or equivalent. This course is approved for General Education – Distribution 1

**SPAN308 SPANISH CONVERSATION AND COMPOSITION II 3 sem. hrs.**

This course is for students who need practice in spoken and written Spanish. It consists of a review of pronunciation and grammar, written themes, preparation, and delivery of dialogues and talks on topical subjects. Prerequisite: **SPAN202** or equivalent. This course is approved for General Education – Distribution 1.

**SPAN331 SPANISH CIVILIZATION 3 sem. hrs.**

Study of the significant aspects of culture and civilization in Spain. Lectures and discussions in Spanish, written and oral reports. Prerequisite: **SPAN202** or equivalent.

**SPAN335 SPANISH-AMERICAN CULTURE 3 sem. hrs.**

Conducted in Spanish on a topic-discussion basis, this course consists of a study of the significant aspects of present day life in Spanish America. It supplements, but does not replace, courses offered by other departments regarding Spanish America. Prerequisite: **SPAN202** or consent of the instructor.

**SPAN341 MEXICO 3 sem. hrs.**

An advanced-level Spanish course designed to familiarize the student with Mexican history and culture. Pre-Colombian cultures, the conquest, the colonial period, independence, the revolution of 1910, and contemporary society will be studied. Lectures and discussions will be in Spanish. Prerequisite: **SPAN307** and **SPAN308**.

**SPAN351 SURVEY OF SPANISH LITERATURE I 3 sem. hrs.**

This course, conducted in Spanish, is a survey of the major movements and figures of Spanish literature from its tenth century beginnings

through the eighteenth century with a study of representative works from each literary period. Prerequisite: **SPAN307** or **SPAN308** or equivalent.

**SPAN352 SURVEY OF SPANISH LITERATURE II 3 sem. hrs.**

This course is a study of representative works, movements, and figures of Spanish peninsular literature from the nineteenth and twentieth centuries. Prerequisite: **SPAN307** or **SPAN308** or equivalent.

**SPAN353 MODERN LATIN AMERICAN LITERATURE IN TRANSLATION 3 sem. hrs.**

This course examines English translations of popular literary works by selected modern Latin American authors. It considers such literary currents as magical realism, writing from exile, and feminine discourse. This course is approved for General Education – Distribution 1.

**SPAN355 SURVEY OF SPANISH AMERICAN LITERATURE I 3 sem. hrs.**

This course presents a study of the representative works of major Spanish-American literary figures encompassing the chronicle, the short story, the novel, the essay, and poetry. The readings span the time period from the pre-Columbian epoch through the 18th century. Prerequisites: **SPAN307** or **SPAN308** or demonstrated proficiency in the language.

**SPAN356 SURVEY OF SPANISH AMERICAN LITERATURE II 3 sem. hrs.**

This is a survey course in Spanish-American literature with major emphasis on the works, authors, themes, and cultural implications of the 19th and 20th centuries. Prerequisite: **SPAN307** or **SPAN308** or demonstrated proficiency in the language.

**SPAN390-391 SPECIAL TOPICS: SPANISH 1-12 sem. hrs.**

These topics represent a variety of short courses in specialized areas beyond the content of regular courses. Examples are gestures, slang, children's songs and games, folk songs, art, children's literature, and similar cultural activities. One semester hour credit is granted on successful completion of each short course. For Spanish majors, only 9 semester hours credit may count toward degree requirements in Spanish, but additional short courses may be taken as electives. A list of the topics of the short courses is maintained by the chairperson of the department.

**SPAN407    ADVANCED SPANISH  
COMPOSITION AND  
CONVERSATION****3 sem. hrs.**

Review of finer points of Spanish grammar, syntax, idiomatic construction, and work formation. Original compositions. Strongly recommended for future teachers. Prerequisite: **SPAN307** or consent of instructor.

**SPAN481    THE SPANISH DRAMA****3 sem. hrs.**

Intensive study of the classical romantic, realistic, and contemporary periods. Independent readings and reports. Prerequisite: **SPAN351** or **SPAN352** or consent of instructor.

**SPAN490-    INDEPENDENT STUDY IN  
492        SPANISH        2-5 sem. hrs.**

For students who need extra credit for the major or minor field and/or state certification. Open to students having a 3.0 average in the language or better and/or with the consent of the chairperson of the department and the instructor concerned. Written and oral reports.

**SPAN511    SPANISH PHONETICS****3 sem. hrs.**

A study of the sounds, rhythm, and intonation of spoken Spanish with the objective of perfecting the student's pronunciation and diction. Strongly recommended for future teachers. Prerequisite: **SPAN202** or equivalent.

**SPED210    INTRODUCTION TO  
EXCEPTIONALITIES/  
SPECIAL EDUCATION****3 sem. hrs.**

This course addresses the identification, prevalence, and learning characteristics of students with exceptionalities. It addresses legal mandates and requirements as well as models for collaborating and coordinating with professionals and families. This course includes a thirty-hour field experience for observation and exploration of the field of special education and individuals with exceptional needs. This course is taken at the pre-candidacy level of a teacher candidate's program. Prerequisite: **PSYC 101** or permission of instructor

**SPED240    MANAGING INCLUSIVE  
LEARNING  
ENVIRONMENTS****3 sem. hrs.**

This course addresses classroom approaches to managing disruptive behaviors in inclusive settings. It emphasizes current research and effective practice on a continuum from proactive through intervention strategies. The course addresses issues of physical environment, daily routines, rules and appropriate consequences both natural and logical. This course is taken at the pre-candidacy level of a teacher candidate's program. Prerequisite: **SPED210** or permission of instructor.

**SPED267    AMERICAN SIGN  
LANGUAGE AND THE  
DEAF CULTURE    3 sem. hrs.**

This course develops basic receptive/expressive communication skills in American Sign Language, the visual/gestural language used by deaf individuals and the third most widely used language in the USA. It introduces basic vocabulary, statements, questions, and commands and emphasizes using conversation regulators within meaningful dialogue. It also includes basic information about the history of ASL and the Deaf Community/Culture.

**SPED295    PREFIELD SURVEY  
EXPERIENCE IN SPECIAL  
EDUCATION        3 sem. hrs.**

Students observe children with exceptionalities of different age levels, degrees of handicap, and types of disabilities in institutions, private schools, and public schools. Students must provide their own transportation and must take the course before completing 60 credit hours.

**SPED320    HIGH INCIDENCE  
DISABILITIES    3 sem. hrs.**

This course addresses the identification, learning characteristics, and the instructional and behavioral needs of students with high incidence disabilities. Emphasis is on developing a repertoire of evidence based instructional strategies to individualize instruction for mild disabilities. Prerequisite: **SPED210** or permission of the instructor.

**SPED335    POSITIVE BEHAVIOR  
SUPPORTS IN  
SECONDARY SETTINGS    3 sem. hrs.**

This course addresses classroom approaches for managing behaviors in inclusive and special education settings. Students will learn positive behavior supports (PBS) ranging from universal strategies for all students, targeted strategies, and intensive interventions for students with Emotional and Behavioral Disorders (EBD). Prerequisites: **SPED210**, teacher candidacy or permission of the instructor.

**SPED 340    EDUCATING INDIVIDUALS  
WITH LOW INCIDENCE  
DISABILITIES    3 sem. hrs.**

This course focuses on low-incidence disabilities that include individuals with physical disabilities, health impairments, developmental disabilities, pervasive development disorder, traumatic brain injury, and multiple disabilities. Topics include conditions, characteristics, etiologies, assessment, instructional practices, functional curricula and materials, communication, inter-professional collaboration and professional practice. Prerequisite: **SPED 210** and Teacher Candidacy or permission of the instructor. Students required to take **SPED 400** may not enroll in **SPED 340**.

**SPED350    LANGUAGE AND  
LITERACY SKILLS FOR  
EXCEPTIONAL  
STUDENTS        3 sem. hrs.**

This course explores atypical development in oral and written language, and the implications for assessment and instruction. It examines the implications of cultural differences for identifying and treating language and literacy problems. It emphasizes the selection of materials and the application of empirically-validated strategies such as direct instruction for teaching reading and written expression to exceptional students. Prerequisites: **SPED210** or **SPED710**, and teacher candidacy. Students required to take **SPED441** OR **SPED451** may not enroll in **SPED 350**.

**SPED360    INSTRUCTIONAL  
PLANNING STRATEGIES****3 sem. hrs.**

This course examines in depth research-validated strategies, and their underlying theories, for planning and implementing instruction appropriate for students with special needs, including English Language Learners. It enables special education teacher-candidates to develop expertise in selecting and designing effective curriculum materials and in planning and delivering specialized explicit instruction that best reflects the unique needs of each exceptional student. Prerequisite: **SPED210**, **SPED 240**, **Teacher candidacy** or permission of instructor. Students required to take **SPED 441** and **SPED 451** may not enroll in **SPED 360**.

**SPED370    ADAPTATIONS/  
ACCOMMODATIONS IN  
INCLUSIVE SETTINGS****3 sem. hrs.**

This course addresses inclusive practices involved in the planning and delivery of instruction to students with exceptional needs. The course stresses the collaborative nature of inclusion in P-12 settings. It emphasizes strategies for accommodations in reading, writing, math, content area instruction, and study skills. Prerequisite: **SPED210** or permission of instructor. Teacher candidacy required. Taken in P-4, 4-8, or 7-12 Block. Students required to take **SPED 330** may not enroll in **SPED 370**.

**SPED380    TRANSITION IN THE  
SECONDARY  
CLASSROOM        3 sem. hrs.**

This course introduces the process of transition from high school to employment or postsecondary education for individuals with disabilities. It includes: legislation, assessment, Individual Transition Plans, and research based instructional strategies designed to teach self-determination and adult independence. Prerequisite: Teacher Candidacy or permission from instructor.

**SPED410 POSITIVE BEHAVIOR INTERVENTIONS AND SUPPORTS 3 sem. hrs.**

This course increases understanding of emotional and behavioral problems in children and adolescents, examining characteristics of selected disorders and recent research into etiological factors and psychological and educational interventions. It emphasizes theoretical, legal, and practical foundations for established behavior management techniques. It enables teacher-candidates to develop skills in assessing and analyzing serious behavior problems, and in designing and implementing empirically-validated interventions. Prerequisites: **SPED210, teacher candidacy** or permission of the instructor. **Co-requisite: SPED 440.** Students required to take SPED 230 may not enroll in SPED410.

**SPED420 ASSESSMENT OF STUDENTS WITH DISABILITIES 3 sem. hrs.**

This course provides information about and supervised practice using formal and informal assessment instruments commonly utilized in Special Education. It addresses instruments and procedures associated with the identification and programming process, and curriculum-based assessment for progress monitoring. It enables Special Education teacher-candidates to develop skills in performing relevant assessments and in interpreting and communicating the results. Prerequisites: **SPED 210, teacher candidacy** or permission of instructor. **Co-requisite: SPED 440.** Students required to take SPED 315 may not enroll in SPED 420.

**SPED430 COLLABORATION AND IEP DEVELOPMENT 3 sem. hrs.**

This course examines the process of developing Individualized Education Plans (IEPs) for exceptional students, and provides supervised practice in completing state IEP forms. It presents best practice for collaborating with all members of the IEP team and emphasizes the role for the family. It presents strategies for encouraging parents' active participation in designing their children's programs and in monitoring their ongoing school performance. Prerequisite: **SPED 210, teacher candidacy** or permission of the instructor. **Co-requisite: SPED 440.**

**SPED433 SPEECH AND LANGUAGE PROBLEMS OF EXCEPTIONAL CHILDREN 3 sem. hrs.**

The development of the communicational processes as they relate to the normal child and how they deviate in the exceptional child will be presented. The course will provide the classroom teacher with the academic knowledge to better understand communicational pathologies, the ability to

identify specific hearing, speech, language, and voice deviations, and practical suggestions for classroom management of children with communicational disorders.

**SPED440 FIELD EXPERIENCE IN SPECIAL EDUCATION 3 sem. hrs.**

This field experience provides students with an intensive experience in the instruction of students with disabilities in a public school or alternative setting. Students participate in the education process by assisting in the assessment, planning, instruction, and classroom management of students under the supervision of a certified special educator in a public school or other approved educational setting. This course must be taken in conjunction with the Special Education Block: SPED 410, SPED 420, and SPED 430. Students required to take SPED 475 may not enroll in SPED 440. Prerequisites: **SPED 210 and teacher candidacy.**

**SPED460 YOUNG CHILDREN WITH DISABILITIES 3 sem. hrs.**

This course introduces the field of Early Childhood Special Education with a focus on young children with disabilities. It emphasizes early intervention rationale, history and identification of at-risk children. Also included are mandates of P.L. 99-457 and 90-538 (early intervention law). Prerequisites: **SPED215** or **SPED710.**

**SPED461 INSTRUCTIONAL STRATEGIES FOR STUDENTS WITH DISABILITIES I 3 sem. hrs.**

The purpose of the course prepares pre-service teachers to provide evidenced-based language arts to students with disabilities in 7-12 inclusion settings. An emphasis is placed on results of research proven methods of instruction for teaching beginning reading to adolescents with learning difficulties. The course stresses a behavioral approach to teaching reading, as well as the development and implementation of intervention strategies for various populations of adolescents with exceptionalities in inclusive settings.

**SPED462 INSTRUCTIONAL STRATEGIES FOR STUDENTS WITH DISABILITIES II 3 sem. hrs.**

This course studies the research-based interventions for individuals with special needs including English Language Learners in the subject areas of mathematics, science, and social studies. Interventions include application of the universal design for learning with adaptations in the areas of instructional strategies, curriculum, materials, assessment, and classroom environment. Prerequisite: **Candidacy.**

**SPED490 INDEPENDENT STUDY 3-12 sem. hrs.****SPED495 STUDENT TEACHING IN SPECIAL EDUCATION 6 or 12 sem. hrs.**

This is the capstone course of the undergraduate Special Education Teacher Certification program P-8. It provides supervised, field-based experience in teaching and other activities expected of special education teachers in Pre-School through grade eight. Prerequisites: **Teacher Candidacy**, and *have taken Praxis II exams*, and successfully completed all required professional courses for certification.

**SPST395 INTERNSHIP IN INDIVIDUALIZED STUDIES 3-15 sem. hrs.**

This course allows the student majoring in Specialized Studies to gain experience in his or her chosen profession. The nature of the experience and the time spent determine the amount of credit earned. Prerequisite: at least 64 hours of college credit.

**SSCI273 BLACK IMAGES ON FILM 3 sem. hrs.**

The purpose for such a study is to analyze film as a mirror of our social attitudes; to survey, historically, the social impact of films on American race relations; and to attempt to determine why unrealistic images of minorities persist in our mass media and how we may be able to change them for the future.

**SSCI490 INDEPENDENT STUDY IN SOCIAL SCIENCE 2-5 sem. hrs.**

The Independent Study program aims to serve those students whose scholarly bent seems most clearly adapted to independent work. Students are permitted to resolve problems and to earn credit for work performed outside the classroom requirement of any specific course in the curriculum.

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**THEA201 VOICE AND MOVEMENT FOR THE ACTOR 3 sem. hrs.**

The purpose of this course is to introduce the student to exercises and techniques designed to free the voice and body. Through phonetics, physical isolation and awareness exercises, the student should develop strong expressive vocal and physical instruments for the stage, specifically in the areas of resonance, breath control and movement ranges. Particular attention will be paid to the anatomy of the human vocal mechanism.

**THEA202 PLAY ANALYSIS****3 sem. hrs.**

This course introduces students to various methods of play analysis. Focus will be placed on dramatic structure, content and meaning of selected plays. A variety of plays from different periods, cultures and genres will be read with emphasis on the different ways in which they may be approached by directors, actors, designers and scholars. This course is approved for General Education Core 1.

**THEA203 FUNDAMENTALS OF ACTING****3 sem. hrs.**

This course introduces theory and practice in the techniques of acting. It emphasizes styles of acting, dramatic forms, voice and speech, stage movement, improvisation and characterization. This course is approved for General Education – Distribution 1.

**THEA211 THEATRE PRACTICUM I****1-3 sem. hrs.**

Students contribute to campus productions in the areas of directing, acting, stage management, technical direction, design (sound, set, lights, costumes, makeup), properties, scenic construction, scenic painting, costume technology, dance or running crews, as assigned. This course may be repeated for a maximum of 6 semester hours.

**THEA218 INTRODUCTION TO THEATRE****3 sem. hrs.**

The intent of this course is to guide the student toward developing a basic understanding and appreciation of drama and theater. This will be accomplished by reading, lecture and discussion, as well as viewing and critiquing of performances. Familiarization with major historical periods, dramatic theory and the roles of each member of a theatrical production team are primary objectives of the course. This course is approved for General Education Core 1.

**THEA300 THEATRE AND STAGE MANAGEMENT****3 sem. hrs.**

Theatre and Stage Management is a course designed to acquaint the theatre student with current trends in the area of arts administration. The focus of the course will be on developing effective management strategies to aid in efficient organization of the theatre production, as well as to explore practical methods for theatre operations. The student will participate in projects and activities that will establish basic competencies in organizing, scheduling, marketing, budgeting and grant writing. Prerequisite: **THEA202** and permission of instructor.

**THEA310 CREATIVE DRAMATICS I****3 sem. hrs.**

This course introduces acting, playmaking, and theatre appreciation through improvisation. It fosters imagination, sensory awareness,

pantomime, concentration, creative movement, and creativity. It is designed as a prologue to teaching creative drama on the elementary and secondary level. This course is approved for General Education – Distribution 1.

**THEA311 STAGECRAFT I****3 sem. hrs.**

This course acquaints the student with the rudiments of building, painting, and moving scenery under varied conditions. It includes the operation and maintenance of stage machinery and stage management. This course is approved for General Education – Distribution 1.

**THEA313 COSTUME AND MAKE-UP****3 sem. hrs.**

This course studies making of costumes, including materials, substitutions, patterns and pattern-drafting, dyeing, aging, and maintenance of wardrobe. It includes the design and application of makeup for theatre and television.

**THEA314 STAGE LIGHTING****3 sem. hrs.**

This course acquaints students with the requirements for theatre lighting specialists. Basic electricity, as well as lighting for film and television, will be included.

**THEA315 SCENE DESIGN****3 sem. hrs.**

This course acquaints students with the requirements and the basic skills necessary for scenic designers today with attention to the place of design in theatre historically.

**THEA318 HISTORY OF THE THEATRE TO 1642****3 sem. hrs.**

This course examines the development of the theatre and theatre art from the earliest times to the closing of the theatres in England in 1642. It studies conditions, the lives of performers, theatre architecture and the development of theatrical convention and dramaturgy. This course is approved for General Education – Distribution 1.

**THEA319 HISTORY OF THEATRE FROM 1660 TO PRESENT****3 sem. hrs.**

This course examines the continuing development of theatre art from the Restoration to the present. Equal attention is given to dramaturgy, production conditions, theatre architecture, and the means of the actor. This course is approved for General Education – Distribution 1.

**THEA351 PLAYWRITING****3 sem. hrs.**

This course introduces the student to the theory and practice of dramatic writing, the reading of selected plays and texts, and the writing of various types of dramatic scenes and a one-act play.

**THEA397 STUDIES IN DRAMA****3 sem. hrs.****Repeatable up to 12 hours.**

A special topics course in the study of theatrical techniques and dramatic literature beyond the content of regular courses. This 3 semester hour course is repeatable up to 12 hours. Prerequisite: permission of instructor.

**THEA405 DIRECTING****3 sem. hrs.**

This course explores the elements of play directing, including choice of play, methods of directing, use of the stage, and creation of atmosphere. Prerequisite: **THEA202**, **THEA203** and **THEA311**.

**THEA411 THEATRE PRACTICUM II****1-3 sem. hrs.**

Students contribute to campus productions in the areas of directing, acting, stage management, technical direction, design (sound, set, lights, costumes, makeup), properties, scenic construction and scene painting, costume technology, dance and running crews. This course may be repeated for a maximum of 9 semester hours. Prerequisite: **THEA 211**.

**THEA490 INDEPENDENT STUDY IN DRAMA****2-5 sem. hrs.****THEA495 INTERNSHIP IN THEATRE****3-15 sem. hrs.**

This course provides an opportunity for students to gain experience with a professional theatre company. The standard EUP University internship policy and requirements will be followed. Prerequisites: See internship Director. Up to 3 credits accepted as THEA electives with the balance being Free Electives.

**TREC595, 596, 597, 598, 599 SPECIAL TOPICS IN FIELD BIOLOGY****1-6 sem. hrs.****- U -****UNIV100 UNIVERSITY 100****1 sem. hr.**

UNIV100 serves as an introduction to the University and to skills essential for academic success. The course is designed to help undeclared students and students in transition define goals, a major and a career path, and to engage in strategies to attain those goals.

**- W -****WMST 204 INTRODUCTION TO WOMEN'S STUDIES****3 sem. hrs.**

This interdisciplinary course introduces students to the theories and research pertaining to women's experiences and women's status in contemporary society.



**WMST 360 PHILOSOPHY AND FEMINISM 3 sem. hrs.**

This course critically examines traditional and contemporary concepts of the moral social, and meta-physical status of women. It pays special attention to the strengths and weaknesses of feminist theories concerning the philosophical nature and significance of gender and related concepts. Prerequisite: one prior philosophy course or permission of the instructor.

**WMST495 INTERNSHIP IN WOMEN'S STUDIES 3-12 sem. hrs.**

This internship gives students the opportunity to apply, improve and develop skills through practical, on the job experience in business, research, government, and non-governmental organizations, or other agencies serving the needs of women. Time spent and the nature of the experience is usually under the direction of the employer and is used in determining the amount of credit earned. The student will be responsible to the Women's Studies faculty internship advisor.

**WMST599 SEMINAR IN WOMEN'S STUDIES 3 sem. hrs.**

This interdisciplinary seminar in Women's studies analyzes and synthesizes relevant theories and research in Humanities, History, Human Development and Communications, through evaluation of primary and secondary data. Prerequisite: Senior WS Major or by permission.

**WRLD100 INTRODUCTION TO WORLD LANGUAGES AND CULTURES 3 sem. hrs.**

This course introduces the student to the study of world languages. The student will be exposed to the fundamentals of language study within a cultural context. Students will acquire a structured understanding of the basic fundamentals of the world's major language groups. Students will learn about cultural and geographical diversity for each language introduced. This course will employ a multi-language lab experience. This course is approved for General Education – Core 2.

**WRLD495 INTERNSHIP IN WORLD LANGUAGES AND CULTURE 3-12 sem. hrs.**

This internship gives students the opportunity to apply, improve, and develop skills through practical, on-the-job experience in business, research, government agencies or other professions related to World Languages and Cultures. Internship activities will be developed to benefit the student, internship site, and the University.

# UNIVERSITY FACULTY



EDINBORO  
UNIVERSITY

**ACADEMIC FACULTY**

SUZANNE AMENDOLARA, Professor  
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Geosciences  
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Social Work  
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B.A., Concordia College, 1988;  
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Speech, Language and Hearing  
B.A., University of North Carolina, 1995;  
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Journalism and Public Relations  
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Biology and Health Services  
B.S., Kent State University, 1976;  
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Kansas State, 1988
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Geosciences  
B.S., Edinboro University of  
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English and Liberal Studies  
B.A., Franconia College, 1977;  
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Art  
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Technology, 1982
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Speech, Language and Hearing  
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Political Science and Criminal Justice  
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Social Work  
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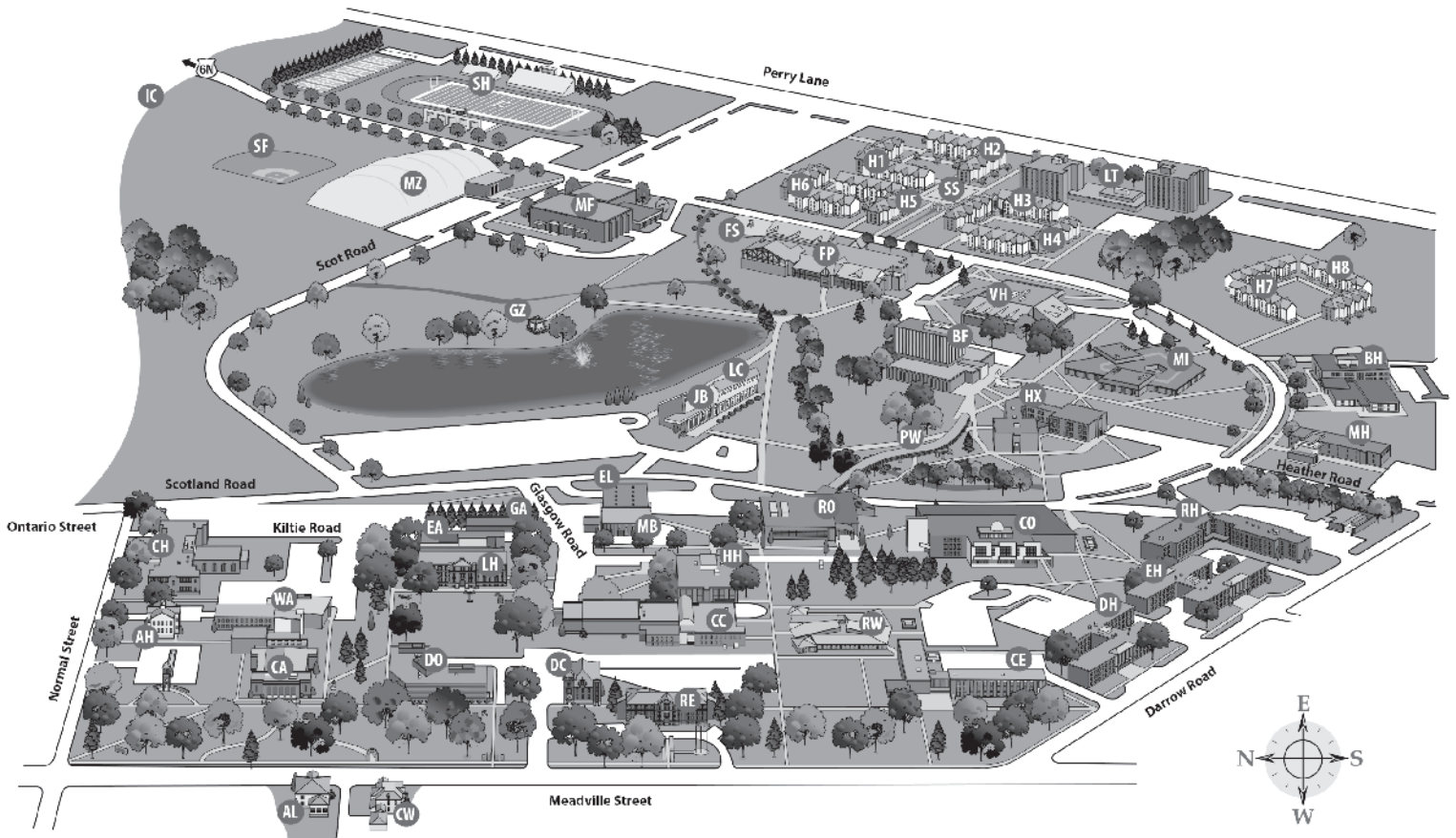
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# EDINBORO UNIVERSITY



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|--|---|---|
| <b>AH</b> Academy Hall                             | <b>FP</b> Frank G. Pogue Student Center           | <b>LH</b> Loveland Hall   |
| <b>AL</b> Alumni House                             | <b>GA</b> Garage                                  | <b>MB</b> Maintenance Building                                  |
| <b>BF</b> Baron-Forness Library                    | <b>GZ</b> Gazebo                                  | <b>MF</b> McComb Fieldhouse                                     |
| <b>BH</b> Butterfield Hall                         | <b>HH</b> Hamilton Hall                           | <b>MH</b> McNerney Hall and<br>Ghering Health & Wellness Center |
| <b>CE</b> Centennial Hall                          | <b>HX</b> Hendricks Hall                          | <b>MZ</b> Mike S. Zafirovski Sports & Recreation Center         |
| <b>CA</b> Louis C. Cole Auditorium - Memorial Hall | <b>H1</b> Highlands Residence Hall 1              | <b>MI</b> Miller Hall   |
| <b>CW</b> Commonwealth House                       | <b>H2</b> Highlands Residence Hall 2              | <b>PW</b> Pedestrian Walkway                                    |
| <b>CH</b> Compton Hall                             | <b>H3</b> Highlands Residence Hall 3              | <b>RW</b> R. Benjamin Wiley Arts & Sciences Center              |
| <b>CO</b> Cooper Science Center                    | <b>H4</b> Highlands Residence Hall 4              | <b>RE</b> Reeder Hall   |
| <b>CC</b> Crawford Center                          | <b>H5</b> Highlands Residence Hall 5              | <b>RH</b> Rose Hall   |
| <b>DH</b> Dearborn Hall                            | <b>H6</b> Highlands Residence Hall 6              | <b>RO</b> Ross Hall   |
| <b>DC</b> Diebold Center for the Performing Arts   | <b>H7</b> Highlands Residence Hall 7              | <b>SF</b> Softball Field  |
| <b>DO</b> Doucette Hall                            | <b>H8</b> Highlands Residence Hall 8              | <b>SH</b> Sox Harrison Stadium                                  |
| <b>EL</b> Earlley Hall                             | <b>IC</b> Information Center and Police Station   | <b>SS</b> Standing Stones at Highlands                          |
| <b>EH</b> Earp Hall                                | <b>JB</b> Jeremy D. Brown Human Services Building | <b>VH</b> Van Houten Dining Hall                                |
| <b>EA</b> East Hall                                | <b>LT</b> Lawrence Towers                         | <b>WA</b> William P. Alexander Music Center                     |
| <b>FS</b> Fighting Scot Plaza                      | <b>LC</b> Leader Speech & Hearing Center          |   |